```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     9/24/90    TIME    16: 4:25         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
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OCE A.T.O
9-20-1

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
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END OF BANNER

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009

THIS RUN EXECUTED 9/24/90 16: 4:26

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************
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SECTION 2850, OCOTILLO WASH
AREA BETWEEN STN 10024.3 - 10889.3 CONSIDERED INEFFECTIVE. FLOW IN INEFFECTIVE FLOW ZONE IS A BREAK OUT FLOW FROM THE MAIN CHANNEL AND IS MODELED SEPARATELY. SEE THE TEXT OF THE FLOOD INSURANCE STUDY.

SECTION 2970, OCOTILLO WASH
AREA BETWEEN STN 10498.3 - 10696.7 CONSIDERED INEFFECTIVE. FLOW IN INEFFECTIVE FLOW ZONE IS A BREAK OUT FLOW FROM THE MAIN CHANNEL AND IS MODELED SEPARATELY. SEE THE TEXT OF THE FLOOD INSURANCE STUDY.

SECTION 3090, OCOTILLO WASH
AREA BETWEEN STN 10049.5 - 10821.0 CONSIDERED INEFFECTIVE. FLOW IN INEFFECTIVE FLOW ZONE IS A BREAK OUT FLOW FROM THE MAIN CHANNEL AND IS MODELED SEPARATELY. SEE THE TEXT OF THE FLOOD INSURANCE STUDY.

```
T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                2                                                          2242.66

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150
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QT        4       2274       3445       4047       5109

NC      .05        .05        .04         .1         .3

        ***** STREAM REACH DISTANCES REVISED 9-18-90
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
X1     2030         18     9874.2    10067.5                                          -2
GR   2252.8     9793.7     2252.5     9830.5     2246.7     9853.0     2241.3     9874.2     2242.9     9900.3
GR   2244.0     9926.2     2242.1     9957.7     2242.5     9966.4     2241.6     9999.3     2242.0    10000.0
GR   2241.0    10018.4     2242.1    10044.1     2242.3    10067.5     2245.7    10093.3     2254.9    10121.7
GR   2256.9    10157.9     2256.5    10178.3     2255.4    10187.7


NC     .045       .045       .035

X1     2070         19     9943.5    10069.5       210        210        210
GR   2251.0     9688.1     2251.0     9778.4     2251.0     9831.4     2251.0     9874.2     2250.4     9898.2
GR   2250.4     9923.7     2246.5     9943.5     2245.8     9962.9     2246.3    10000.0     2245.5    10021.6
GR   2246.7    10025.5     2249.5    10039.2     2246.6    10053.8     2248.5    10069.5     2256.2    10088.3
GR   2259.0    10113.5     2260.3    10163.3     2262.0    10215.1     2264.4    10249.6


NH        3       .045     9955.2       .035    10070.2       .045    10390.0

X1     2170         23     9986.5    10355.2       520        480        530
GR   2275.4     9886.0     2274.5     9895.8     2258.2     9933.0     2261.4     9938.9     2262.4     9955.2
GR   2262.0     9966.8     2259.7     9979.0     2256.6     9986.5     2256.6    10000.0     2258.5    10031.4
GR   2257.6    10050.1     2258.7    10070.2     2258.6    10141.3     2255.9    10216.3     2255.3    10240.7
GR   2257.9    10257.8     2257.2    10275.7     2259.0    10288.9     2257.7    10332.0     2257.2    10354.4
GR   2257.4    10355.2     2258.7    10370.7     2261.6    10390.0


NH        3       .045     9915.0       .035    10022.5       .045     10410

X1     2260         25     9928.2    10010.6       470        480        480
GR   2286.5     9504.5     2284.0     9547.8     2279.0     9591.4     2272.8     9676.2     2269.4     9723.0
GR   2271.5     9733.2     2271.2     9826.7     2271.6     9915.0     2268.2     9928.2     2268.4     9967.0
GR   2268.3     9971.7     2267.6    10000.0     2266.8    10010.6     2276.7    10022.5     2277.1    10024.6
GR   2278.3    10061.3     2276.9    10093.0     2271.9    10116.9     2276.6    10142.2     2278.8    10173.0
GR   2278.4    10207.4     2277.8    10217.0     2280.0      10290       2276      10347     2280.0      10410


NH        3       .045     9943.1       .035    10110.1       .045    10790.4
```

	2310	30	9963.4	10110.1	220	220	220			
GR	2294.0	9694.6	2286.6	9724.9	2279.8	9775.6	2278.8	9803.3	2279.9	9832.4
GR	2277.9	9885.7	2277.9	9935.4	2276.8	9943.1	2276.0	9963.4	2273.3	10000.0
GR	2273.2	10013.4	2274.8	10036.0	2274.2	10054.9	2273.7	10093.0	2273.6	10110.1
GR	2283.6	10126.1	2283.9	10162.2	2284.2	10194.7	2284.6	10231.8	2286.9	10283.2
GR	2286.3	10309.7	2284.3	10332.6	2286.6	10359.7	2290.0	10499.5	2291.4	10573.2
GR	2289.5	10623.7	2290.3	10668.1	2286.2	10716.7	2289.7	10752.7	2291.2	10790.4
QT	4	1652	2499	2992	3667					
NH	3	.045	9962.2	.035	10033.3	.045	10220.2			
	QT VALUES ARE FROM CP 35A.									
X1	2400	23	9778.6	10014.9	490	470	480			
GR	2305.0	9627.1	2303.2	9663.3	2299.0	9695.4	2291.3	9730.7	2289.1	9757.9
GR	2289.1	9759.2	2287.3	9778.6	2289.0	9795.9	2285.4	9817.6	2288.2	9844.7
GR	2290.4	9912.7	2290.8	9962.2	2288.2	9974.2	2287.4	9975.8	2287.4	9996.1
GR	2287.6	10000.0	2287.6	10014.9	2296.1	10033.3	2290.4	10062.9	2291.9	10094.6
GR	2290.2	10138.6	2292.2	10177.0	2292.1	10220.2				
NH	3	.045	9904.6	.035	10061.2	.045	10861.4			
X1	2470	30	9916.2	10057.1	320	320	320			
	2305.0	9882.7	2304.7	9904.6	2301.0	9916.2	2298.2	9969.6	2298.2	9974.5
	2298.7	10000.0	2299.1	10020.8	2297.7	10036.5	2297.0	10057.1	2304.8	10061.2
GR	2303.6	10075.7	2304.2	10129.9	2304.0	10217.3	2302.6	10266.8	2300.4	10305.8
GR	2301.2	10355.4	2303.9	10373.5	2303.8	10392.7	2306.8	10422.6	2308.8	10465.6
GR	2308.5	10532.2	2309.1	10614.6	2308.6	10669.8	2307.6	10723.7	2305.8	10728.9
GR	2306.5	10741.7	2306.6	10756.9	2307.6	10761.6	2309.4	10813.5	2309.5	10861.4
NH	3	.045	9985.2	.040	10273.5	.045	10715.7			
X1	2580	29	9985.2	10162.9	580	580	580			
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7		
NH	3	.045	9883.1	.040	10196.5	.045	10457.2			
X1	2650	22	9903.4	10196.5	370	370	370			
GR	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
GR	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
	2335.2	10436.7	2333.8	10457.2						

NH	3	.045	9982	.040	10038	.045	10353			
X1	2720	10	9982	10315	410	410	410			
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
NC	.045	.055	.035							
X1	2780	36	9960.7	10073.7	280	280	280			
GR	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7
GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								
NH	3	.035	9915.7	.03	10024.3	999	10889.3			
X1	2850	34	9946.7	10024.3	370	370	370			
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5
GR	2368.4	10294.6	2368.6	10370.3	2367.8	10463.0	2367.5	10531.7	2366.9	10583.5
GR	2366.4	10610.9	2367.9	10650.9	2368.9	10685.7	2365.6	10700.8	2365.8	10706.9
GR	2363.7	10715.9	2361.6	10757.6	2360.6	10771.0	2367.5	10784	2366.4	10793.5
GR	2365.9	10820.7	2366.3	10829.5	2366.4	10874.6	2365.8	10889.3		
NH	4	.035	10025.9	.045	10422.5	.035	10498.3	999	10696.7	
X1	2970	35	9700.0	10025.9	635	635	635			
GR	2389.5	9632	2388.0	9675	2386.4	9700	2388.0	9728	2389.7	9792.0
GR	2388.0	9850	2386.2	9908	2388.0	9965.6	2385.2	9997.4	2384.9	10000.0
GR	2387.6	10025.9	2390.0	10071.0	2390.5	10093.8	2389.8	10107.6	2391.4	10177.9
GR	2390.4	10234.1	2389.9	10282.8	2385.9	10296.3	2388.2	10321.9	2387.7	10348.8
GR	2386.4	10368.7	2384.9	10383.6	2386.7	10402.2	2385.7	10422.5	2382.5	10431.1
GR	2385.1	10454.9	2384.1	10476.9	2388.7	10498.3	2390.8	10543.9	2389.0	10547.2
GR	2388.4	10574.9	2390.6	10579.3	2392.4	10604.0	2395.5	10622.4	2394.3	10696.7
NH	4	.05	9908.3	.03	10030.6	.05	10049.5	999	10821.0	
X1	3090	36	9908.3	10049.5	690	690	690			
GR	2416.3	9714.3	2411.5	9775.9	2412.2	9823.6	2414.6	9874.7	2415.4	9908.3
	2413.8	9933.4	2415.0	9954.0	2415.3	9964.3	2410.9	9969.3	2410.9	10000.0
	2410.4	10019.7	2415.1	10030.6	2416.1	10049.5	2413.3	10083.3	2413.7	10136.8
GR	2413.1	10161.7	2414.4	10182.7	2413.4	10244.9	2413.3	10293.1	2409.3	10320.4
GR	2410.4	10349.4	2413.8	10372.6	2416.8	10410.9	2417.8	10461.6	2415.1	10490.5

	2412.7	10537.5	2410.5	10552.5	2416.0	10582.1	2416.9	10622.3	2416.8	10670.5
GR	2414.5	10692.6	2412.8	10700.9	2414.5	10718.2	2417.4	10754.4	2425.5	10811.7
GR	2424.6	10821								
NC	.05	.05	.035							
X1	3170	13	9962.0	10080.0	410	430	420			
GR	2448.0	9905.0	2440.0	9942.0	2432.0	9962.0	2427.0	9985.0	2426.0	10000.0
GR	2428.0	10018.0	2431.0	10080.0	2431.2	10118.0	2433.5	10147.0	2434.0	10215.0
GR	2438.0	10255.0	2442.5	10300.0	2448.0	10410.0				
QT	4	1029	1494	1714	2099					
NC	.045	.045	.045							
	QT VALUES ARE FROM CP G1.									
X1	3290	23	9829.6	10000.0	630	630	630			
GR	2476.0	9611.0	2470.8	9672.2	2466.6	9712.4	2464.1	9726.3	2461.9	9776.8
GR	2456.8	9829.6	2456.2	9866.9	2458.5	9891.0	2456.7	9914.8	2456.9	9936.1
GR	2457.3	9939.9	2454.3	9986.0	2452.1	10000.0	2460.3	10019.0	2462.7	10036.8
GR	2462.6	10073.4	2463.1	10107.5	2465.3	10171.9	2467.2	10225.2	2465.1	10278.5
GR	2463.5	10300.3	2467.0	10340.2	2468.8	10376.9				
	3390	23	9815.5	10032.6	530	530	530			
GR	2497.2	9774.1	2486.7	9805.0	2479.3	9815.5	2480.6	9830.3	2483.1	9863.8
GR	2481.4	9914.4	2478.9	9947.3	2481.5	9971.1	2476.4	9985.9	2475.6	9998.3
GR	2475.9	10000.0	2475.2	10008.0	2479.7	10016.3	2481.2	10032.6	2488.1	10051.3
GR	2487.7	10076.4	2483.7	10105.9	2489.1	10115.7	2486.1	10125.7	2485.4	10132.2
GR	2487.1	10167.3	2489.1	10213.7	2487.4	10235.0				
NC	.045	.045	.040							
X1	3490	16	9933.5	10015.6	460	490	530			
GR	2518.7	9876.6	2513.7	9903.1	2508.0	9918.7	2501.6	9933.5	2499.9	9945.9
GR	2502.2	9957.0	2501.3	9959.4	2499.2	9967.0	2496.7	9989.0	2497.0	10000.0
GR	2498.7	10012.5	2500.3	10015.6	2507.1	10041.8	2514.7	10065.3	2516.9	10097.8
GR	2516.8	10108.2								
NC	.045	.045	.035							
X1	3570	14	9968.3	10034.5	410	380	420			
GR	2537.0	9919.5	2526.5	9947.9	2519.2	9968.3	2520.8	9970.9	2515.8	9983.7
GR	2514.9	10000.0	2516.4	10011.0	2519.2	10034.5	2529.8	10064.4	2528.8	10092.1
GR	2530.3	10097.9	2534.0	10130.1	2536.5	10184.7	2535.7	10200.2		

X1	3650	14	9955.6	10039.8	400	440	420			
GR	2559.6	9898.9	2554.0	9913.7	2547.9	9932.1	2540.8	9945.9	2536.1	9955.6
GR	2534.5	9974.9	2534.4	9981.6	2535.1	10000.0	2537.0	10017.3	2537.0	10027.9
GR	2537.6	10039.8	2551.5	10065.6	2559.8	10108.1	2559.9	10120.2		
NC	.05	.05	.05							
X1	3740	13	9833.3	10035.6	480	480	480			
GR	2575.9	9782.5	2565.6	9809.8	2562.7	9833.3	2563.9	9859.3	2563.4	9888.2
GR	2563.8	9910.7	2563.8	9946.7	2563.2	9979.0	2562.1	10000.0	2562.4	10021.1
GR	2562.7	10035.6	2572.0	10056.1	2580.1	10067.1				
X1	3830	15	9933.1	10046.4	360	400	380			
GR	2610.7	9813.9	2610.9	9857.8	2613.5	9898.0	2583.0	9933.1	2582.1	9941.0
GR	2581.4	9949.9	2585.0	9960.0	2582.9	9978.0	2584.7	10000.0	2585.2	10020.6
GR	2587.0	10046.4	2586.7	10087.3	2591.9	10138.3	2598.9	10166.3	2606.7	10179.3
X1	3930	19	9904.7	10075.4	550	510	530			
GR	2639.8	9838.0	2624.9	9868.4	2615.8	9893.8	2613.6	9904.7	2612.6	9933.6
GR	2611.5	9938.5	2611.1	9953.7	2613.1	9973.8	2612.8	10000.0	2613.1	10013.5
GR	2614.0	10019.8	2609.8	10043.1	2611.8	10069.5	2609.5	10075.4	2615.6	10094.9
	2629.2	10123.2	2641.5	10147.4	2642.1	10187.3	2641.8	10195.9		
NC	.05	.05	.045							
X1	3990	10	10000.0	10026.7	280	320	320			
GR	2662.4	9938.9	2635.0	9983.7	2622.9	10000.0	2624.8	10013.6	2625.9	10015.0
GR	2627.2	10026.7	2639.1	10051.7	2641.4	10085.4	2645.5	10108.7	2643.3	10112.0
X1	4070	7	9985.9	10013.0	400	380	420			
GR	2677.7	9958.9	2658.7	9985.9	2652.0	10000.0	2648.4	10006.9	2658.3	10013.0
GR	2660.0	10016.3	2671.9	10065.8						
X1	4190	9	9988.7	10013.0	630	630	630			
GR	2726.6	9947.0	2697.9	9988.7	2695.1	9998.3	2695.7	10000.0	2695.3	10007.6
GR	2702.2	10013.0	2707.8	10029.7	2717.2	10097.9	2716.8	10098.4		
X1	4280	10	9983.7	10014.0	470	500	480			
GR	2794.4	9828.8	2761.7	9903.9	2738.3	9955.7	2729.6	9983.7	2729.4	9987.6
GR	2727.5	10000.0	2729.6	10014.0	2736.2	10027.0	2746.2	10042.3	2752.0	10063.8

NC	.06	.06	.055							
X1	4380	12	9984.2	10013.8	530	530	530			
GR	2775.8	9945.3	2773.4	9959.3	2761.0	9980.4	2759.1	9984.2	2755.2	10000.0
GR	2754.1	10007.9	2758.0	10013.8	2759.4	10017.7	2763.4	10044.1	2767.2	10055.5
GR	2778.0	10074.6	2782.3	10079.7						
X1	4420	10	9981.7	10011.0	230	200	210			
GR	2789.4	9937.9	2779.2	9965.6	2773.7	9981.7	2771.1	9985.9	2769.5	9998.3
GR	2770.4	10000.0	2771.1	10007.6	2775.9	10011.0	2785.7	10025.9	2796.3	10045.2
X1	4460	7	9988.3	10010.5	190	210	210			
GR	2815.8	9951.1	2784.8	9988.3	2783.2	10000.0	2783.1	10010.5	2785.5	10011.7
GR	2799.3	10033.8	2807.0	10055.9						
NC	.06	.06	.05							
X1	4610	10	9985.7	10012.4	790	790	790			
GR	2841.2	9933.9	2838.7	9959.8	2835.9	9985.7	2835.1	9987.8	2833.4	9998.7
GR	2833.4	10000.0	2835.6	10012.4	2844.1	10018.1	2858.6	10041.7	2864.0	10049.8
	4810	11	9952.3	9972.6	1090	1030	1060			
GR	2911.6	9867.8	2899.3	9925.7	2888.8	9952.3	2888.7	9959.7	2892.0	9972.6
GR	2894.7	9986.8	2894.1	10000.0	2892.8	10012.9	2894.5	10014.9	2918.7	10046.7
GR	2929.0	10063.6								
X1	4990	8	10000.0	10011.4	930	970	950			
GR	2981.0	9938.9	2972.8	9968.5	2965.2	9986.5	2952.7	10000.0	2950.3	10008.0
GR	2952.5	10011.4	2965.7	10030.8	2975.2	10047.0				
X1	5170	8	9994.5	10008.8	970	930	950			
GR	3078.9	9933.4	3050.7	9983.0	3043.9	9994.5	3042.7	10000.0	3044.9	10008.8
GR	3049.0	10011.2	3058.1	10031.7	3062.2	10053.3				
NC	.06	.06	.055							
X1	5350	12	9907.8	10016.6	960	940	950			
GR	3185.6	9858.0	3171.0	9887.0	3165.4	9907.8	3164.0	9952.0	3165.8	9977.2
GR	3162.1	9991.5	3161.7	10000.0	3161.3	10013.5	3161.4	10016.6	3167.1	10034.9
GR	3184.5	10061.5	3183.8	10062.0						

NC	.06	.06	.05							
X1	5510	8	9997.0	10023.2	840	840	840			
GR	3277.8	9984.0	3270.6	9997.0	3271.2	10000.0	3270.1	10018.7	3270.2	10023.2
GR	3281.7	10048.7	3288.9	10103.6	3289.5	10105.9				
X1	5610	7	9981.9	10000.0	520	540	530			
GR	3335.7	9939.2	3326.4	9967.9	3327.2	9981.9	3324.8	9991.1	3326.7	10000.0
GR	3327.9	10013.3	3332.2	10036.4						

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*PROF 1



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
        ***** STREAM REACH DISTANCES REVISED 9-18-90
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 2030.000     3.66  2242.66      .00  2242.66  2243.00      .34      .00      .00  2239.30
    2274.      66.    2157.      51.      22.     453.      21.       0.       0.   2240.30
      .00     2.99     4.76     2.40     .050     .040     .050     .000  2239.00  9861.01
  .005293       0.       0.       0.        0        0        0      .00   224.40 10085.41


SECNO 2070.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     3.25  2248.75  2248.75      .00  2249.84     1.08     1.69      .22  2246.50
    2274.      53.    2221.       0.      13.     263.       0.       2.       1.   2248.50
      .01     4.13     8.43      .04     .045     .035     .045     .000  2245.50  9932.07
  .013704     210.     210.     210.       20       11        0      .00   130.62 10070.12


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
```

ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2170.000	3.40	2258.70	2258.63	.00	2259.20	.50	9.31	.06	2256.60
2274.	35.	2200.	39.	6.	388.	10.	6.	4.	2257.40
.03	5.97	5.67	3.80	.035	.042	.045	.000	2255.30	9931.85
.023360	520.	530.	480.	22	5	0	.00	379.48	10370.74

1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2260.000	4.02	2270.82	2270.82	.00	2272.04	1.21	7.74	.22	2268.20
2274.	126.	2088.	60.	32.	229.	10.	10.	7.	2266.80
.05	3.91	9.12	6.17	.039	.035	.035	.000	2266.80	9703.44
11805	470.	480.	480.	16	11	0	.00	123.87	10015.43

1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2310.000	2.83	2276.03	2276.03	.00	2277.01	.98	2.89	.02	2276.00
2274.	0.	2255.	19.	0.	283.	5.	11.	7.	2273.60
.06	.05	7.97	4.09	.035	.035	.045	.000	2273.20	9962.57
.014702	220.	220.	220.	20	19	0	.00	151.42	10113.99

1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP 35A.

2400.000	3.83	2289.23	2289.23	.00	2289.98	.74	8.25	.02	2287.30
1652.	99.	1538.	15.	20.	218.	3.	14.	9.	2287.60
.08	4.90	7.05	5.12	.045	.041	.035	.000	2285.40	9756.28
021731	490.	480.	470.	16	14	0	.00	169.29	10018.43

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


1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2470.000     3.27  2300.27  2300.27      .00  2301.16      .89     5.89      .04  2301.00
    1652.       0.    1639.      13.       0.     216.       3.      16.      10.   2297.00
      .09      .00     7.60     4.45     .000     .035     .035     .000  2297.00  9930.06
  .015813     320.     320.     320.       12       15        0      .00   128.76 10058.82


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2580.000     3.49  2317.19  2317.19      .00  2317.95      .76     9.86      .01  2317.00
    1652.      38.    1614.       0.      14.     228.       0.      19.      12.   2318.70
      .11     2.60     7.08      .00     .045     .040     .000     .000  2313.70  9952.45
   18331      580.     580.     580.       10        8        0      .00   167.32 10143.31


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2650.000     3.76  2329.76  2329.76      .00  2330.41      .64     7.51      .01  2326.00
    1652.      97.    1555.       0.      12.     245.       0.      21.      14.   2332.00
      .13     7.76     6.34      .00     .040     .040     .000     .000  2326.00  9896.76
  .022625     370.     370.     370.       17        8        0      .00   207.99 10127.03


1490 NH CARD USED
*SECNO 2720.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2720.000     2.24  2344.04  2344.04      .00  2344.52      .48    10.73      .02  2344.00
    1652.       0.    1652.       0.       0.     297.       0.      24.      16.   2344.00
      .15      .06     5.57      .06     .000     .043     .045     .000  2341.80  9981.92
  030641      410.     410.     410.       20       14        0      .00   334.32 10316.24
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     3.25  2354.05  2354.05      .00  2354.66      .61     7.61      .04  2355.80
    1652.       0.     454.    1198.       0.     80.     186.      25.      18.   2354.10
      .16      .00     5.68     6.44     .000     .035     .055     .000  2350.80  9970.16
  .024283     280.     280.     280.        4       14        0      .00   219.55 10262.13


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 0.000     4.62  2365.02  2365.02      .00  2366.03     1.02     5.23      .12  2364.60
 1652.      177.    1475.       0.      35.     176.     205.      28.      20.   2366.50
      .17    5.09     8.38      .00     .030     .030  999.000     .000  2360.40  9915.05
  .009231    370.     370.     370.        5       14        0      .00   271.49 10779.32


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     4.37  2386.87  2386.87      .00  2387.49      .62     6.05      .04  2386.40
    1652.       3.     168.    1481.       2.     56.     225.      33.      24.   2387.60
      .20     1.61     3.01     6.57     .035     .035     .036     .000  2382.50  9692.60
  .009830     635.     635.     635.       20       12        0      .00   241.96 10489.80


1490 NH CARD USED
*SECNO 3090.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     4.15  2413.45  2413.45      .00  2414.34      .89     6.54      .08  2415.40
    1652.     400.     1252.       0.     117.     148.     265.      40.      29.   2416.10
      .23     3.40     8.46      .00     .050     .030  999.000     .000  2409.30  9750.86
  .009139     690.     690.     690.        6       13        0      .00   385.95 10707.53


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     4.33  2430.33  2430.33      .00  2431.40     1.07     4.77      .05  2432.00
    1652.       0.     1652.       0.       0.     199.       0.      43.      31.   2431.00
      .24      .00     8.28      .00     .000     .035     .000     .000  2426.00  9969.66
  .014585     410.     420.     430.       20        8        0      .00    96.59 10066.25


*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     4.95  2457.05  2457.05      .00  2457.70      .65    10.99      .04  2456.80
    1029.       0.      777.     252.       0.     142.      28.      46.      33.   2452.10
      .27     1.28     5.45     8.87     .045     .045     .045     .000  2452.10  9827.02
  .024164     630.     630.     630.       20       11        0      .00   143.83 10011.47


*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     4.47  2479.67  2479.67      .00  2480.70     1.03    12.78      .11  2479.30
    1029.       0.     1029.       0.       0.     126.       0.      48.      34.   2481.20
      .29      .05     8.15      .00     .045     .045     .000     .000  2475.20  9814.98
  .024060     530.     530.     530.       12       11        0      .00    61.65 10016.24
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3490.000	3.54	2500.24	2500.24	.00	2501.34	1.10	11.17	.02	2501.60
1029.	0.	1029.	0.	0.	122.	0.	49.	35.	2500.30
.30	.00	8.42	.00	.000	.040	.000	.000	2496.70	9943.45
.018610	460.	530.	490.	9	15	0	.00	56.29	10015.47

*SECNO 3570.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3570.000	3.78	2518.68	2518.68	.00	2519.82	1.14	6.79	.01	2519.20
1029.	0.	1029.	0.	0.	120.	0.	50.	36.	2519.20
.32	.00	8.55	.00	.000	.035	.000	.000	2514.90	9976.32
14179	410.	420.	380.	20	8	0	.00	53.86	10030.18

*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3650.000	2.99	2537.39	2537.39	.00	2538.25	.86	6.14	.03	2536.10
1029.	5.	1024.	0.	2.	137.	0.	52.	36.	2537.60
.33	2.82	7.47	.00	.045	.035	.000	.000	2534.40	9952.94
.015104	400.	420.	440.	20	15	0	.00	82.63	10035.57

*SECNO 3740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3740.000	2.11	2564.21	2564.21	.00	2564.62	.41	10.36	.05	2562.70
1029.	41.	977.	11.	9.	189.	3.	54.	38.	2562.70
.36	4.47	5.18	4.22	.050	.050	.050	.000	2562.10	9821.09
.033339	480.	480.	480.	20	14	0	.00	217.83	10038.92

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


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     3.89  2585.29  2585.29      .00  2586.12      .83    12.78      .12  2583.00
    1029.      15.     1014.       0.       3.     139.       0.      55.      39.   2587.00
      .37     4.98      7.32      .00     .050     .050     .000     .000  2581.40  9930.46
  .033993     360.      380.     400.       12       17        0      .00    91.48 10021.94


*SECNO 3930.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     3.28  2612.78  2612.78      .00  2613.54      .76    18.05      .01  2613.60
    1029.       0.      902.      127.       0.     130.      17.      57.      40.   2609.50
      .39      .00      6.93      7.41     .000     .050     .050     .000  2609.50  9928.45
    74274     550.      530.      510.       20       15        0      .00   101.42 10085.88


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     5.38  2628.28  2628.28      .00  2629.84     1.56     8.60      .24  2622.90
    1029.     144.      882.       3.      20.      85.       1.      58.      41.   2627.20
      .40     7.37     10.42     2.73     .050     .045     .050     .000  2622.90  9992.75
  .021982     280.      320.     320.       20       14        0      .00    36.23 10028.97


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000     8.27  2656.67  2656.67      .00  2658.76     2.09    10.18      .16  2658.70
    1029.       0.     1029.       0.       0.      89.       0.      59.      41.   2658.30
      .41      .00     11.61      .00     .000     .045     .000     .000  2648.40  9990.17
     7047     400.      420.     380.       20       14        0      .00    21.82 10012.00
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     5.19  2700.29  2700.29      .00  2702.19     1.89    15.00      .02  2697.90
    1029.      18.     1011.       0.       4.      91.       0.      60.      42.   2702.20
      .43     4.28     11.13      .00     .050     .045     .000     .000  2695.10  9985.22
  .021127     630.      630.     630.       20       14        0      .00    26.28 10011.51


*SECNO 4280.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     4.39  2731.89  2731.89      .00  2733.32     1.44     9.51      .05  2729.60
    1029.      36.      971.      21.       8.      99.       5.      61.      42.   2729.60
      .44     4.30     9.84     4.11     .050     .045     .050     .000  2727.50  9976.33
  .018633     470.      480.     500.       20       15        0      .00    42.18 10018.51


 NO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     5.54  2759.64  2759.64      .00  2761.22     1.57    12.33      .04  2759.10
    1029.       0.     1014.      15.       0.     100.       4.      62.      42.   2758.00
      .46     1.67     10.13     3.81     .060     .055     .060     .000  2754.10  9983.11
  .029874     530.      530.     530.       20       11        0      .00    36.20 10019.31


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     4.88  2774.38  2774.38      .00  2776.09     1.71     6.55      .04  2773.70
    1029.       1.     1028.       0.       1.      98.       0.      63.      43.   2775.90
      .46     2.10     10.50      .00     .060     .055     .000     .000  2769.50  9979.71
  .032619     230.      210.     200.       20       11        0      .00    30.22 10009.92


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
 4460.000     4.49  2787.59  2787.59      .00  2789.39     1.80     6.13      .03  2784.80
    1029.      20.     976.      34.       5.      89.       7.      63.      43.   2783.10
      .47     4.21    11.00     4.50     .060     .055     .060     .000  2783.10  9984.95
  .026296     190.     210.     210.       20       11        0      .00    30.11 10015.05


*SECNO 4610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     4.63  2838.03  2838.03      .00  2839.43     1.40    18.18      .04  2835.90
    1029.      77.     947.       5.      21.      96.       2.      65.      43.   2835.60
      .49     3.66     9.84     2.72     .060     .050     .060     .000  2833.40  9966.03
  .020314     790.     790.     790.       13        8        0      .00    48.00 10014.03


*SECNO 4810.000

3265 DIVIDED FLOW

 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     4.95  2893.65  2893.65      .00  2895.08     1.43    21.71      .01  2888.80
    1029.     182.     817.      30.      30.      79.      11.      68.      45.   2892.00
      .52     6.10    10.37     2.68     .060     .050     .060     .000  2888.70  9940.02
  .020515    1090.    1060.    1030.       20        8        0      .00    50.67 10013.90


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000     7.14  2957.44  2957.44      .00  2959.65     2.22    18.81      .24  2952.70
    1029.      60.     870.      99.      12.      68.      18.      71.      45.   2952.50
      .55     4.96    12.80     5.52     .060     .050     .060     .000  2950.30  9994.89
  .019167     930.     950.     970.       20       11        0      .00    23.77 10018.65
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     6.00  3048.70  3048.70      .00  3050.85     2.15    18.88      .01  3043.90
    1029.     112.     902.      15.      19.      73.       4.      73.      46.   3044.90
      .57     5.77    12.39     3.46     .060     .050     .060     .000  3042.70  9986.39
  .020606     970.     950.     930.       20       15        0      .00    24.64 10011.02


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5[illegible].000     3.69  3164.99  3164.99      .00  3165.78      .79    26.67      .14  3165.40
    1029.       0.     881.     148.       0.     123.      21.      75.      47.   3161.40
      .61      .00     7.14     7.14     .000     .055     .060     .000  3161.30  9920.66
  .040510     960.     950.     940.       20       14        0      .00    93.05 10028.13


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     3.82  3273.92  3273.92      .00  3275.40     1.48    25.79      .21  3270.60
    1029.      49.     896.      84.      10.      87.      15.      78.      48.   3270.20
      .63     4.93    10.26     5.47     .060     .050     .060     .000  3270.10  9991.00
  .024070     840.     840.     840.       20        8        0      .00    40.46 10031.46


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5610.000	4.41	3329.21	3329.21	.00	3330.29	1.08	12.36	.04	3327.20
1029.	281.	591.	158.	46.	60.	30.	79.	49.	3326.70
.65	6.11	9.80	5.27	.060	.050	.060	.000	3324.80	9959.23
.022655	520.	530.	540.	20	8	0	.00	61.09	10020.33

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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      50-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                      2243.47

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                -1
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 ECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 2



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
       ***** STREAM REACH DISTANCES REVISED 9-18-90
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 2030.000     4.47  2243.47      .00  2243.47  2243.89      .42      .00      .00  2239.30
    3445.     108.    3235.     102.      34.     609.      38.       0.       0.   2240.30
      .00     3.16     5.31     2.67     .050     .040     .050     .000  2239.00  9857.83
  .004425       0.       0.       0.        0        0        0      .00   233.73 10091.55


 NO 2070.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     3.97  2249.47  2249.47      .00  2250.84     1.37     1.47      .28  2246.50
    3445.     108.    3335.       3.      22.     351.       1.       3.       1.   2248.50
      .01     4.81     9.49     2.19     .045     .035     .045     .000  2245.50  9928.42
  .012818     210.     210.     210.       20       15        0      .00   143.17 10071.87


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
 2170.000     3.75  2259.05  2259.05      .00  2259.69      .64     8.72      .07  2256.60
    3445.      53.     3316.      76.      9.     512.      16.      8.       4.   2257.40
      .03     6.10     6.48     4.78     .036     .042     .045     .000  2255.30  9931.07
  .021955     520.     530.     480.      15       10        0      .00   395.91 10373.00


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     5.20  2272.00  2272.00      .00  2272.94      .95     5.21      .09  2268.20
    3445.     573.     2784.      88.     203.     326.      16.     14.       8.   2266.80
      .05     2.82     8.54     5.40     .042     .035     .035     .000  2266.80  9687.26
  .006476     470.     480.     480.       3       12        0      .00   330.57 10117.42


 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     3.49  2276.69  2276.69      .00  2277.92     1.23     1.93      .09  2276.00
    3445.      14.     3397.      34.      6.     379.       8.     16.       9.   2273.60
      .05     2.34     8.96     4.43     .035     .035     .045     .000  2273.20  9945.93
  .012580     220.     220.     220.      20       14        0      .00   169.11 10115.04


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP 35A.
 2400.000     4.33  2289.73  2289.73      .00  2290.63      .89     7.29      .03  2287.30
    2499.     194.     2276.      29.     33.     295.       5.     20.      11.   2287.60
      .07     5.87     7.72     5.92     .045     .041     .035     .000  2285.40  9750.06
  .020295     490.     480.     470.      20       11        0      .00   194.47 10019.52
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ECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2470.000	3.92	2300.92	2300.92	.00	2301.94	1.02	5.18	.04	2301.00
2499.	0.	2464.	35.	0.	302.	15.	23.	13.	2297.00
.08	.00	8.16	2.37	.000	.035	.040	.000	2297.00	9917.74
.013200	320.	320.	320.	14	11	0	.00	182.84	10338.01

1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
CRITICAL DEPTH ASSUMED

0.000	4.03	2317.73	2317.73	.00	2318.61	.87	8.82	.01	2317.00
2499.	138.	2361.	0.	35.	308.	0.	27.	15.	2318.70
.10	3.91	7.66	.00	.045	.040	.000	.000	2313.70	9941.32
.017695	580.	580.	580.	13	8	0	.00	201.50	10150.40

1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2650.000	4.17	2330.17	2330.17	.00	2330.96	.78	7.38	.01	2326.00
2499.	128.	2371.	0.	15.	337.	0.	30.	17.	2332.00
.12	8.32	7.03	.00	.040	.040	.000	.000	2326.00	9896.03
.022654	370.	370.	370.	18	8	0	.00	245.55	10141.59

1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2720.000	2.54	2344.34	2344.34	.00	2344.96	.62	10.17	.02	2344.00
2499.	0.	2496.	3.	0.	395.	2.	34.	20.	2344.00
.14	1.53	6.32	1.67	.045	.044	.045	.000	2341.80	9981.39
.027301	410.	410.	410.	12	14	0	.00	343.48	10324.87

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


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     3.66  2354.46  2354.46      .00  2355.21      .75     7.08      .04  2355.80
    2499.       0.     869.    1630.       0.     122.     237.      36.      22.   2354.10
      .15      .00     7.14     6.88     .000     .035     .055     .000  2350.80  9967.99
  .023461     280.     280.     280.       12        8        0      .00   238.74 10264.09


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     5.25  2365.65  2365.65      .00  2366.96     1.31     5.06      .17  2364.60
    2499.     369.    2130.       0.      55.     223.     321.      40.      24.   2366.50
      .16     6.71     9.54      .00     .030     .030  999.000     .000  2360.40  9914.07
  .008958     370.     370.     370.       10       14        0      .00   313.33 10780.51


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     4.89  2387.39  2387.39      .00  2388.02      .63     5.72      .07  2386.40
    2499.      19.     411.    2068.       8.     117.     304.      48.      29.   2387.60
      .19     2.53     3.50     6.81     .035     .035     .037     .000  2382.50  9684.50
  .009068     635.     635.     635.       20       10        0      .00   321.17 10492.22
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3090.000	4.86	2414.16	2414.16	.00	2415.04	.88	6.24	.08	2415.40
2499.	810.	1689.	0.	196.	194.	485.	58.	36.	2416.10
.21	4.13	8.73	.00	.050	.030	999.000	.000	2409.30	9741.80
.009012	690.	690.	690.	4	5	0	.00	566.87	10714.71

*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3170.000	5.11	2431.11	2431.11	.00	2432.33	1.22	4.50	.10	2432.00
2499.	0.	2498.	1.	0.	282.	1.	64.	39.	2431.00
.23	.00	8.85	.51	.000	.035	.050	.000	2426.00	9966.07
.013051	410.	420.	430.	20	8	0	.00	135.73	10101.81

*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP G1.

3290.000	5.28	2457.38	2457.38	.00	2458.16	.77	10.27	.04	2456.80
1494.	4.	1183.	307.	2.	189.	32.	67.	41.	2452.10
.25	2.30	6.27	9.48	.045	.045	.045	.000	2452.10	9823.55
.025257	630.	630.	630.	20	8	0	.00	162.27	10012.25

*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3390.000	5.24	2480.44	2480.44	.00	2481.42	.99	13.34	.06	2479.30
1494.	3.	1491.	0.	1.	187.	0.	70.	43.	2481.20
.27	3.14	7.97	.00	.045	.045	.000	.000	2475.20	9813.89
.025098	530.	530.	530.	14	5	0	.00	98.90	10024.29

*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3490.000	4.26	2500.96	2500.96	.00	2502.19	1.24	11.09	.08	2501.60
1494.	0.	1492.	2.	0.	167.	1.	72.	44.	2500.30
.29	.00	8.93	2.05	.000	.040	.045	.000	2496.70	9938.18
.017709	460.	530.	490.	11	15	0	.00	70.32	10018.14

*SECNO 3570.000

DIVIDED FLOW

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

3570.000	4.47	2519.37	2519.37	.00	2520.73	1.36	6.48	.04	2519.20
1494.	0.	1494.	0.	0.	160.	0.	73.	45.	2519.20
.30	.04	9.36	.04	.045	.035	.045	.000	2514.90	9967.83
.013545	410.	420.	380.	20	8	0	.00	61.16	10034.98

*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3650.000	3.48	2537.88	2537.88	.00	2538.95	1.07	5.82	.03	2536.10
1494.	11.	1483.	0.	3.	178.	0.	75.	45.	2537.60
.31	3.39	8.32	.04	.045	.035	.045	.000	2534.40	9951.93
.014198	400.	420.	440.	20	15	0	.00	88.39	10040.32

*SECNO 3740.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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


3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.31  2564.41  2564.41      .00  2564.99      .58    10.36      .05  2562.70
    1494.      60.    1418.      15.      12.     229.       3.       77.      47.   2562.70
      .34     5.09     6.18     4.81     .050     .050     .050     .000  2562.10  9819.47
  .036647     480.     480.     480.       20       23        0      .00   219.90 10039.36


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.37  2585.77  2585.77      .00  2586.77      .99    12.82      .12  2583.00
    1494.      24.    1470.       0.       4.     183.       0.       79.      49.   2587.00
      .35     5.42     8.04      .00     .050     .050     .000     .000  2581.40  9929.91
  .031234     360.     380.     400.       13       17        0      .00    98.93 10028.83


*SECNO 3930.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     3.88  2613.38  2613.38      .00  2614.02      .64    16.14      .04  2613.60
    1494.       0.    1307.     187.       0.     210.      24.       82.      50.   2609.50
      .37      .00     6.22     7.75     .000     .050     .050     .000  2609.50  9910.97
  .029839     550.     530.     510.       14       10        0      .00   169.11 10087.81


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     6.30  2629.20  2629.20      .00  2631.12     1.92     7.57      .38  2622.90
    1494.     206.    1271.      16.      27.     109.       4.       83.      51.   2627.20
      .38     7.71    11.63     3.88     .050     .045     .050     .000  2622.90  9991.51
  .019512     280.     320.     320.       17       14        0      .00    39.40 10030.91


*SECNO 4070.000
```

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

3301 HV CHANGED MORE THAN HVINS

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

4070.000	9.58	2657.98	2657.98	.00	2660.40	2.42	9.31	.15	2658.70
1494.	0.	1494.	0.	0.	120.	0.	85.	51.	2658.30
.39	.00	12.48	.00	.000	.045	.000	.000	2648.40	9987.41
.025630	400.	420.	380.	20	14	0	.00	25.40	10012.80

*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4190.000	6.34	2701.44	2701.44	.00	2703.72	2.29	14.09	.01	2697.90
1494.	49.	1445.	0.	9.	118.	0.	86.	52.	2702.20
.40	5.36	12.29	.00	.050	.045	.000	.000	2695.10	9983.56
19696	630.	630.	630.	20	14	0	.00	28.85	10012.40

*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

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

4280.000	5.25	2732.75	2732.75	.00	2734.48	1.73	8.73	.06	2729.60
1494.	81.	1366.	47.	16.	125.	10.	88.	52.	2729.60
.42	5.07	10.95	4.84	.050	.045	.050	.000	2727.50	9973.56
.016869	470.	480.	500.	20	15	0	.00	46.64	10020.20

*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4380.000	6.53	2760.63	2760.63	.00	2762.46	1.82	10.82	.03	2759.10
1494.	7.	1428.	58.	2.	129.	13.	90.	53.	2758.00
.43	3.06	11.04	4.65	.060	.055	.060	.000	2754.10	9981.13
.025216	530.	530.	530.	20	11	0	.00	44.71	10025.84

```
ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     5.92  2775.42  2775.42      .00  2777.48     2.07     5.72      .07  2773.70
    1494.      16.     1478.       0.       4.     127.       0.      90.      53.   2775.90
      .43     3.70     11.60      .00     .060     .055     .000     .000  2769.50  9976.68
  .029536     230.      210.     200.       20       11        0      .00    33.98 10010.66


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     5.57  2788.67  2788.67      .00  2790.86     2.19     5.55      .04  2784.80
    1494.      45.     1381.      69.       9.     113.      13.      91.      53.   2783.10
      .44     4.98     12.27     5.18     .060     .055     .060     .000  2783.10  9983.66
  .023842     190.      210.     210.       20       11        0      .00    33.11 10016.77


O 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.60  2839.00  2839.00      .00  2840.51     1.50    15.65      .07  2835.90
    1494.     201.     1281.      12.      45.     122.       4.      94.      54.   2835.60
      .46     4.51     10.47     3.09     .060     .050     .060     .000  2833.40  9956.66
  .016718     790.      790.     790.       20        5        0      .00    58.02 10014.68


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.08  2894.78  2894.78      .00  2896.13     1.35    16.79      .02  2888.80
    1494.     271.     1069.     154.      45.     102.      45.      98.      55.   2892.00
      .50     5.99     10.50     3.44     .060     .050     .060     .000  2888.70  9937.15
  .014950    1090.     1060.    1030.       20        8        0      .00    78.12 10015.27
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

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

4990.000	8.53	2958.83	2958.83	.00	2961.45	2.63	15.51	.38	2952.70
1494.	115.	1193.	185.	20.	84.	29.	102.	57.	2952.50
.52	5.69	14.23	6.29	.060	.050	.060	.000	2950.30	9993.38
.017909	930.	950.	970.	20	11	0	.00	27.32	10020.70

*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5170.000	7.32	3050.02	3050.02	.00	3052.56	2.53	17.27	.01	3043.90
1494.	203.	1255.	36.	32.	92.	9.	105.	57.	3044.90
.54	6.42	13.68	4.17	.060	.050	.060	.000	3042.70	9984.14
8434	970.	950.	930.	20	11	0	.00	29.36	10013.50

*SECNO 5350.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

5350.000	4.22	3165.52	3165.52	.00	3166.38	.86	24.40	.17	3165.40
1494.	0.	1286.	208.	0.	173.	27.	108.	59.	3161.40
.57	.05	7.41	7.61	.060	.055	.060	.000	3161.30	9907.34
.038251	960.	950.	940.	20	11	0	.00	117.59	10029.84

*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

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


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     4.71  3274.81  3274.81      .00  3276.61     1.80    23.80      .28  3270.60
    1494.      88.     1264.     142.      16.     111.      24.     112.      60.   3270.20
      .60     5.50    11.44     6.00     .060     .050     .060     .000  3270.10  9989.40
  .021832     840.     840.     840.       20        8        0      .00    44.03 10033.43


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.04  3329.84  3329.84      .00  3331.18     1.34    11.85      .05  3327.20
    1494.     429.      793.     272.      61.      72.      44.     114.      61.   3326.70
      .61     7.07    11.07     6.20     .060     .050     .060     .000  3324.80  9957.29
  .022953     520.     530.     540.       20        8        0      .00    66.42 10023.71
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                                                    2243.70

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
 TIME    VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN      SSTA
 SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID     ENDST


*PROF 3



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
        ***** STREAM REACH DISTANCES REVISED 9-18-90
        ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
          THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
          COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 2030.000     4.70  2243.70     .00  2243.70  2244.20     .50     .00     .00  2239.30
    4047.     130.    3789.    128.     38.     654.     44.      0.      0.   2240.30
      .00     3.41     5.79    2.92    .050     .040    .050    .000  2239.00  9856.93
  .004801       0.       0.      0.       0        0       0     .00   236.37 10093.30


 O 2070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     4.30  2249.80  2249.80     .00  2251.29    1.49    1.52     .30  2246.50
    4047.     139.    3903.      5.     28.     392.      2.      3.      1.   2248.50
      .01     5.02     9.94    2.59    .045     .035    .045    .000  2245.50  9926.76
  .012175     210.     210.    210.      20       12       0     .00   145.91 10072.67


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     3.91  2259.21  2259.21     .00  2259.92     .71    8.28     .08  2256.60
    4047.      63.    3888.     96.     10.     572.     19.      9.      4.   2257.40
      .03     6.10     6.80    5.09    .036     .042    .045    .000  2255.30  9930.70
    0843     520.     530.    480.      16       10       0     .00   398.06 10374.09
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2260.000	5.44	2272.24	2272.24	.00	2273.25	1.01	5.19	.09	2268.20
4047.	832.	3114.	101.	263.	346.	18.	16.	8.	2266.80
.05	3.16	8.99	5.49	.043	.035	.035	.000	2266.80	9683.86
.006621	470.	480.	480.	7	11	0	.00	336.77	10118.75

1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2310.000	3.81	2277.01	2277.01	.00	2278.33	1.32	1.89	.09	2276.00
4047.	41.	3964.	42.	13.	426.	9.	18.	10.	2273.60
.05	3.26	9.30	4.54	.035	.035	.045	.000	2273.20	9941.63
.011580	220.	220.	220.	20	16	0	.00	173.93	10115.56

1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP 35A.

2400.000	4.56	2289.96	2289.96	.00	2290.95	.99	6.94	.03	2287.30
2992.	252.	2702.	38.	40.	333.	6.	23.	12.	2287.60
.07	6.31	8.12	6.35	.045	.041	.035	.000	2285.40	9747.23
.020407	490.	480.	470.	20	11	0	.00	205.91	10020.01

1490 NH CARD USED
*SECNO 2470.000

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

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2470.000	4.25	2301.25	2301.25	.00	2302.31	1.06	4.82	.02	2301.00
2992.	0.	2911.	81.	0.	348.	34.	26.	13.	2297.00
.08	.05	8.35	2.42	.035	.035	.042	.000	2297.00	9915.42
.011588	320.	320.	320.	15	11	0	.00	208.94	10355.74

1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

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

[illegible].000	4.29	2317.99	2317.99	.00	2318.92	.93	8.16	.01	2317.00
[illegible]992.	209.	2783.	0.	48.	351.	0.	31.	16.	2318.70
.10	4.40	7.93	.00	.045	.040	.000	.000	2313.70	9936.02
.017439	580.	580.	580.	20	5	0	.00	217.59	10153.78

1490 NH CARD USED
*SECNO 2650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2650.000	4.38	2330.38	2330.38	.00	2331.23	.85	7.15	.01	2326.00
2992.	142.	2850.	0.	17.	387.	0.	34.	18.	2332.00
.11	8.38	7.36	.00	.040	.040	.000	.000	2326.00	9895.67
.021536	370.	370.	370.	19	8	0	.00	253.20	10148.87

1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2720.000	2.70	2344.50	2344.50	.00	2345.18	.69	9.62	.02	2344.00
2992.	0.	2984.	8.	0.	448.	4.	38.	21.	2344.00
.13	1.92	6.65	2.09	.045	.044	.045	.000	2341.80	9981.10
.025670	410.	410.	410.	13	14	0	.00	348.46	10329.56

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


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     3.82  2354.62  2354.62      .00  2355.50      .88     7.01      .06  2355.80
    2992.       0.     1104.     1888.      0.     139.     259.      41.      23.   2354.10
      .14      .00      7.92      7.28    .000     .035     .055     .000  2350.80  9967.09
  .024435     280.     280.     280.       14       14        0      .00   246.59 10264.90


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .18 FEET

 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     5.58  2365.98  2365.98      .00  2367.44     1.45     5.06      .17  2364.60
    2992.     491.     2501.       0.     66.     249.     396.      46.      25.   2366.50
      .15     7.42     10.05      .00    .030     .030  999.000     .000  2360.40  9913.54
  .008731     370.     370.     370.        2       14        0      .00   351.15 10889.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     5.14  2387.64  2387.64      .00  2388.27      .63     5.54      .08  2386.40
    2992.      34.      583.     2375.     12.     156.     344.      55.      30.   2387.60
      .18     2.87      3.74      6.90    .035     .035     .037     .000  2382.50  9680.69
  .008722     635.     635.     635.       20       10        0      .00   358.76 10493.35
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     5.13  2414.43  2414.43      .00  2415.36      .92     6.36      .09  2415.40
    2992.    1057.     1935.       0.     231.     215.     591.      67.      38.  2416.10
      .21     4.57      8.98      .00     .050     .030  999.000     .000  2409.30  9738.27
  .009772     690.      690.     690.        6        5        0      .00   623.05 10717.51


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.50  2431.50  2431.50      .00  2432.77     1.27     4.45      .10  2432.00
    2992.       0.     2966.      26.       0.     326.      16.      74.      42.  2431.00
      .22      .00      9.10     1.70     .000     .035     .050     .000  2426.00  9964.32
     1624     410.      420.     430.       20        8        0      .00   157.40 10121.72


*SECNO 3290.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.46  2457.56  2457.56      .00  2458.34      .77     9.18      .05  2456.80
    1714.       8.     1384.     322.       3.     215.      35.      78.      44.  2452.10
      .24     2.64      6.44     9.30     .045     .045     .045     .000  2452.10  9821.68
  .023252     630.      630.     630.       20        5        0      .00   168.82 10012.66


*SECNO 3390.000
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     5.50  2480.70  2480.70      .00  2481.68      .98     12.63      .06  2479.30
    1714.       5.    1709.       0.       1.     215.       0.       81.      46.   2481.20
      .26     3.57     7.95      .00     .045     .045     .000      .000  2475.20  9813.51
  .024446     530.     530.     530.       15        5        0      .00   112.27 10027.22


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.55  2501.25  2501.25      .00  2502.54     1.29     10.82      .09  2501.60
    1714.       0.    1710.       4.       0.     187.       2.       83.      47.   2500.30
      .28      .00     9.12     2.58     .000     .040     .045      .000  2496.70  9936.07
   17314     460.     530.     490.       11       15        0      .00    75.99 10019.25


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     4.75  2519.65  2519.65      .00  2521.11     1.46      6.28      .05  2519.20
    1714.       0.    1713.       0.       0.     177.       0.       85.      48.   2519.20
      .29     1.34     9.70     1.34     .045     .035     .045      .000  2514.90  9967.04
  .013060     410.     420.     380.       20        8        0      .00    63.91 10035.77


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     3.68  2538.08  2538.08      .00  2539.25     1.17      5.62      .03  2536.10
    1714.      15.    1699.       0.       4.     195.       0.       87.      49.   2537.60
      .30     3.58     8.70     1.38     .045     .035     .045      .000  2534.40  9951.51
  .013727     400.     420.     440.       20       15        0      .00    89.18 10040.69
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.42  2564.52  2564.52      .00  2565.15      .64     10.02      .05  2562.70
    1714.      70.    1626.      18.      13.     251.       4.       90.      50.   2562.70
      .33     5.23     6.47     4.93     .050     .050     .050      .000  2562.10  9818.59
  .035533     480.     480.     480.       20       23        0       .00   221.01 10039.60


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.58  2585.98  2585.98      .00  2587.04     1.06     12.38      .13  2583.00
    1714.      29.    1685.       0.       5.     203.       0.       92.      52.   2587.00
      .34     5.58     8.29      .00     .050     .050     .000      .000  2581.40  9929.67
  .030040     360.     380.     400.       14       17        0       .00   102.18 10031.85


*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     4.02  2613.52  2613.52      .00  2614.22      .69     15.82      .04  2613.60
    1714.       0.    1509.      205.       0.     233.      26.       94.      53.   2609.50
      .36      .00     6.48     7.92     .000     .050     .050      .000  2609.50  9906.90
  .029763     550.     530.     510.       14       10        0       .00   175.39 10088.26


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     6.72  2629.62  2629.62      .00  2631.66     2.05      7.33      .41  2622.90
    1714.     238.    1450.      26.      30.     120.       6.       96.      54.   2627.20
      .37     7.82    12.06     4.28     .050     .045     .050      .000  2622.90  9990.95
  .018449     280.     320.     320.       18       14        0       .00    40.82 10031.78
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000    10.11  2658.51  2658.51      .00  2661.07     2.57     8.94      .16  2658.70
    1714.       0.     1714.       0.       0.     133.       0.      97.      55.   2658.30
      .38      .00     12.85      .05     .000     .045     .050     .000  2648.40  9986.30
  .025042     400.      420.     380.       20       14        0      .00    27.10 10013.40


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     6.83  2701.93  2701.93      .00  2704.37     2.44    13.75      .01  2697.90
    1714.       68.     1646.       0.      12.     129.       0.      99.      55.   2702.20
      .39     5.77     12.73      .00     .050     .045     .000     .000  2695.10  9982.85
   019181     630.      630.     630.       20       14        0      .00    29.94 10012.79


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     5.61  2733.11  2733.11      .00  2734.97     1.86     8.47      .06  2729.60
    1714.      106.     1545.      62.      20.     136.      12.     101.      55.   2729.60
      .40     5.36     11.38     5.12     .050     .045     .050     .000  2727.50  9972.39
  .016291     470.      480.     500.       20       15        0      .00    48.53 10020.92


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     6.97  2761.07  2761.07      .00  2762.96     1.89    10.25      .01  2759.10
    1714.       14.     1610.      90.       4.     142.      18.     103.      56.   2758.00
      .42     3.55     11.32     4.90     .060     .055     .060     .000  2754.10  9980.28
  .023338     530.      530.     530.       20       11        0      .00    48.43 10028.71
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     6.34  2775.84  2775.84      .00  2778.06      2.22      5.42       .10  2773.70
    1714.      29.     1685.       0.       7.     140.       0.      104.       56.   2775.90
      .42     4.24     12.04      .00     .060     .055     .000      .000  2769.50  9975.42
  .028729     230.      210.     200.       20       11        0       .00    35.54 10010.96


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     6.05  2789.15  2789.15      .00  2791.47      2.32      5.32       .03  2784.80
    1714.      60.     1565.      90.      11.     123.      16.      105.       56.   2783.10
      .43     5.24     12.69     5.43     .060     .055     .060      .000  2783.10  9983.08
  .022589     190.      210.     210.       20        8        0       .00    34.47 10017.55


SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.94  2839.34  2839.34      .00  2840.93      1.59     15.12       .07  2835.90
    1714.     271.     1428.      15.      55.     131.       5.      108.       57.   2835.60
      .45     4.94     10.88     3.26     .060     .050     .060      .000  2833.40  9953.21
  .016433     790.      790.     790.       20        8        0       .00    61.70 10014.91


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.38  2895.08  2895.08      .00  2896.50      1.42     16.72       .02  2888.80
    1714.     310.     1180.     224.      50.     108.      57.      113.       59.   2892.00
      .48     6.21     10.95     3.90     .060     .050     .060      .000  2888.70  9936.40
  .015063    1090.     1060.    1030.       20        8        0       .00    79.26 10015.66
```

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

*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

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

4990.000	9.12	2959.42	2959.42	.00	2962.19	2.78	15.36	.41	2952.70
1714.	145.	1337.	231.	24.	91.	35.	117.	60.	2952.50
.50	5.96	14.76	6.58	.060	.050	.060	.000	2950.30	9992.75
.017401	930.	950.	970.	20	11	0	.00	28.82	10021.57

*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5170.000	8.06	3050.76	3050.76	.00	3053.25	2.49	15.86	.03	3043.90
1714.	258.	1402.	54.	40.	102.	13.	120.	61.	3044.90
.52	6.49	13.70	4.26	.060	.050	.060	.000	3042.70	9982.89
16003	970.	950.	930.	20	11	0	.00	32.28	10015.17

*SECNO 5350.000

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

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

5350.000	4.39	3165.69	3165.69	.00	3166.63	.94	22.45	.16	3165.40
1714.	0.	1483.	231.	0.	191.	30.	124.	62.	3161.40
.56	1.31	7.77	7.82	.060	.055	.060	.000	3161.30	9906.72
.038366	960.	950.	940.	20	11	0	.00	121.69	10030.37

*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

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


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     5.09  3275.19  3275.19      .00  3277.12     1.93    23.31      .30  3270.60
    1714.     109.     1433.     172.      19.     121.      28.     128.      64.   3270.20
      .58     5.72     11.89     6.21     .060     .050     .060     .000  3270.10  9988.70
  .020996     840.      840.     840.       20        8        0      .00    45.57 10034.28


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.31  3330.11  3330.11      .00  3331.55     1.44    11.58      .05  3327.20
    1714.     501.      884.     330.      68.      77.      51.     130.      65.   3326.70
      .59     7.41     11.53     6.53     .060     .050     .060     .000  3324.80  9956.45
  .022797     520.      530.     540.       20        8        0      .00    68.73 10025.18
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T1 FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2 500-YR FLOOD FREQUENCY MODEL
T3 OCOTILLO WASH (OCEAST.DAT)

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		5							2244.50	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15		-1							

```
SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4



CCHV=     .100 CEHV=     .300
*SECNO 2030.000
       ***** STREAM REACH DISTANCES REVISED 9-18-90
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 2030.000     5.50  2244.50      .00  2244.50  2245.00      .50      .00      .00  2239.30
    5109.     177.    4719.     214.      53.     809.      65.       0.       0.   2240.30
      .00     3.33     5.84     3.26     .050     .040     .050     .000  2239.00  9853.79
  .003668       0.       0.       0.        0        0        0      .00   241.98 10095.77


SECNO 2070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2070.000     4.84  2250.34  2250.34      .00  2252.04     1.70     1.25      .36  2246.50
    5109.     200.    4896.      13.      37.     461.       4.       3.       1.   2248.50
      .01     5.34    10.63     3.14     .045     .035     .045     .000  2245.50  9924.01
  .011240     210.     210.     210.       20        8        0      .00   149.97 10073.99


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2170.000     4.16  2259.46  2259.46      .00  2260.29      .83     7.79      .09  2256.60
    5109.      82.    4894.     133.      13.     663.      24.      11.       4.   2257.40
      .03     6.25     7.38     5.60     .036     .042     .045     .000  2255.30  9930.13
    20145     520.     530.     480.       16       10        0      .00   401.34 10375.74
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
  Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
  TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2260.000     5.84  2272.64  2272.64      .00  2273.73     1.09      5.18      .08  2268.20
    5109.    1337.     3646.     126.     360.     379.      23.       19.       8.   2266.80
      .04     3.71      9.63     5.42     .043     .035     .035      .000  2266.80  9678.45
  .006733     470.      480.     480.       12       11        0       .00   346.66 10120.87


1490 NH CARD USED
*SECNO 2310.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2310.000     4.26  2277.46  2277.46      .00  2278.99     1.53      1.88      .13  2276.00
    5109.     103.     4948.      58.      23.     492.      12.       22.      10.   2273.60
      .05     4.46     10.05     4.85     .035     .035     .045      .000  2273.20  9938.47
  .011162     220.      220.     220.       20       15        0       .00   177.80 10116.28


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
         QT VALUES ARE FROM CP 35A.
 2400.000     4.94  2290.34  2290.34      .00  2291.34     1.00      6.47      .05  2287.30
    3667.     343.     3270.      54.      53.     398.       9.       27.      12.   2287.60
      .07     6.54      8.21     6.31     .045     .041     .035      .000  2285.40  9742.61
  .018094     490.      480.     470.       20       11        0       .00   230.81 10141.23
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2470.000     4.59  2301.59  2301.59      .00  2302.75     1.16     4.43      .05  2301.00
    3667.       1.     3495.     171.       1.     396.      58.      31.      14.   2297.00
      .08     1.90      8.83     2.98     .035     .035     .044     .000  2297.00  9914.36
  .010918     320.     320.     320.       20       11        0      .00   218.39 10357.99


1490 NH CARD USED
*SECNO 2580.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2580.000     4.57  2318.27  2318.27      .00  2319.32     1.05     7.87      .01  2317.00
    3667.     302.     3365.       0.      62.     398.       0.      37.      17.   2318.70
      .10     4.88      8.47      .00     .045     .040     .000     .000  2313.70  9930.46
  .017313     580.     580.     580.       20        5        0      .00   226.86 10157.32


1490 NH CARD USED
*SECNO 2650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2650.000     4.68  2330.68  2330.68      .00  2331.58      .90     6.73      .01  2326.00
    3667.     159.     3508.       0.      19.     462.       0.      41.      19.   2332.00
      .11     8.26      7.59      .00     .040     .040     .000     .000  2326.00  9895.14
  .019156     370.     370.     370.       20        5        0      .00   264.27 10159.42


1490 NH CARD USED
*SECNO 2720.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2720.000     2.90  2344.70  2344.70      .00  2345.47      .78     8.81      .01  2344.00
    3667.       1.     3648.      18.       0.     515.       7.      46.      22.   2344.00
      .12     2.33      7.08     2.55     .045     .044     .045     .000  2341.80  9980.74
  .024296     410.     410.     410.       14       14        0      .00   354.65 10335.39
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2780.000     4.08  2354.88  2354.88      .00  2355.86      .98      6.64      .06  2355.80
    3667.       0.     1447.     2220.       0.     167.     297.      49.      24.   2354.10
      .13      .00      8.64      7.46     .000     .035     .055     .000  2350.80  9965.67
  .023177     280.      280.      280.       17       14        0      .00   259.07 10266.18


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .60 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2850.000     6.00  2366.40  2366.40      .00  2368.05     1.65      4.91      .20  2364.60
    3667.     661.     3006.       0.      80.     281.     512.      54.      27.   2366.50
      .14     8.26     10.71      .00     .030     .030  999.000     .000  2360.40  9912.90
  .008577     370.      370.      370.       11       14        0      .00   462.76 10889.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2970.000     5.29  2387.79  2387.79      .00  2388.55      .76      5.95      .09  2386.40
    3667.      51.      783.     2833.      15.     183.     371.      65.      33.   2387.60
      .17     3.37      4.28      7.64     .035     .035     .037     .000  2382.50  9678.30
  .010273     635.      635.      635.       20        9        0      .00   386.98 10494.06
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 *SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3090.000     5.44  2414.74  2414.74      .00  2415.73      .99     7.19      .07  2415.40
    3667.    1396.    2271.       0.     275.     244.     721.      79.      41.   2416.10
      .20     5.08     9.33      .00     .050     .030  999.000     .000  2409.30  9734.27
  .010564     690.     690.     690.        4        8        0      .00   669.92 10721.24


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.91  2431.91  2431.91      .00  2433.30     1.39     4.49      .12  2432.00
    3667.       0.    3579.      88.       0.     374.      34.      87.      45.   2431.00
      .21      .00     9.56     2.59     .000     .035     .050     .000  2426.00  9962.42
  .010925     410.     420.     430.       20        8        0      .00   164.52 10126.94


*SECNO 3290.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3290.000     5.79  2457.89  2457.89      .00  2458.64      .76     8.37      .06  2456.80
    2099.      19.    1735.     345.       6.     264.      39.      92.      48.   2452.10
      .23     3.08     6.58     8.90     .045     .045     .045     .000  2452.10  9818.36
  .019758     630.     630.     630.       20        6        0      .00   180.48 10013.41


*SECNO 3390.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     5.88  2481.08  2481.08      .00  2482.08     1.00    11.49      .07  2479.30
    2099.       9.    2090.       0.       2.     260.       0.      96.      50.   2481.20
      .25     4.13     8.05      .00     .045     .045     .000     .000  2475.20  9812.98
  .023885     530.     530.     530.       20        5        0      .00   131.31 10031.28


*SECNO 3490.000

3265 DIVIDED FLOW

.7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     4.97  2501.67  2501.67      .00  2503.07     1.40    10.59      .12  2501.60
    2099.       0.    2087.      12.       0.     219.       4.      99.      51.   2500.30
      .27      .04     9.52     3.27     .045     .040     .045     .000  2496.70  9933.34
  .016968     460.     530.     490.       12       15        0      .00    83.55 10020.87


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     5.20  2520.10  2520.10      .00  2521.72     1.62     6.06      .06  2519.20
    2099.       2.    2094.       2.       1.     205.       1.     101.      52.   2519.20
      .28     2.08    10.21     2.08     .045     .035     .045     .000  2514.90  9965.77
  .012416     410.     420.     380.       20        8        0      .00    68.37 10037.05


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     4.02  2538.42  2538.42      .00  2539.75     1.32     5.33      .03  2536.10
    2099.      22.    2076.       1.       6.     224.       1.     103.      52.   2537.60
      .29     3.88     9.27     1.91     .045     .035     .045     .000  2534.40  9950.81
  .012993     400.     420.     440.       20       15        0      .00    90.52 10041.33
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3740.000     2.61  2564.71  2564.71      .00  2565.42      .71     9.40      .06  2562.70
    2099.      88.     1989.      23.      16.     290.       4.     106.      54.   2562.70
      .31     5.37     6.85     5.07     .050     .050     .050     .000  2562.10  9817.02
  .032801     480.     480.     480.       20       14        0      .00   223.01 10040.03


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.90  2586.30  2586.30      .00  2587.48     1.18    11.77      .14  2583.00
    2099.      37.     2062.       0.       6.     235.       0.     108.      56.   2587.00
      .32     5.90     8.76      .00     .050     .050     .000     .000  2581.40  9929.30
  029355     360.     380.     400.       15       17        0      .00   107.08 10036.38


*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     4.23  2613.73  2613.73      .00  2614.52      .79    15.62      .04  2613.60
    2099.       0.     1864.     235.       0.     268.      29.     112.      57.   2609.50
      .34      .05     6.97     8.18     .050     .050     .050     .000  2609.50  9904.04
  .029687     550.     530.     510.       15       10        0      .00   181.56 10088.94


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     7.33  2630.23  2630.23      .00  2632.53     2.31     7.16      .46  2622.90
    2099.     294.     1758.      47.      36.     137.      10.     113.      58.   2627.20
      .35     8.13    12.87     4.87     .050     .045     .050     .000  2622.90  9990.13
  017727     280.     320.     320.       20       17        0      .00    42.93 10033.06
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000    10.86  2659.26  2659.26     .00  2662.15     2.88     8.53      .17  2658.70
    2099.       0.     2096.       2.      0.     154.       1.     115.      58.   2658.30
      .36     1.72     13.64     2.60    .050     .045     .050     .000  2648.40  9985.10
  .023727     400.      420.     380.      20       14        0      .00    29.76 10014.87


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     7.57  2702.67  2702.67     .00  2705.40     2.73    13.15      .02  2697.90
    2099.     105.     1994.       0.     17.     147.       0.     117.      59.   2702.20
      .37     6.34     13.53     1.49    .050     .045     .050     .000  2695.10  9981.77
  .018501     630.      630.     630.      20       19        0      .00    32.64 10014.41


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     6.20  2733.70  2733.70     .00  2735.75     2.05     8.12      .07  2729.60
    2099.     157.     1851.      92.     27.     153.      17.     119.      59.   2729.60
      .38     5.79     12.06     5.53    .050     .045     .050     .000  2727.50  9970.51
  .015532     470.      480.     500.      20       15        0      .00    51.56 10022.07


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     7.60  2761.70  2761.70     .00  2763.74     2.04     9.69      .00  2759.10
    2099.      30.     1913.     155.      7.     161.      29.     122.      60.   2758.00
      .40     4.55     11.89     5.32    .060     .055     .060     .000  2754.10  9979.21
  .021816     530.      530.     530.      20       11        0      .00    53.69 10032.89
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     7.05  2776.55  2776.55      .00  2778.99      2.44      5.05       .12  2773.70
    2099.      59.     2040.       1.      12.     161.        0.      123.       60.   2775.90
      .40     4.93     12.69     1.70     .060     .055      .060      .000  2769.50  9973.35
  .026596     230.      210.     200.       20       11         0       .00    38.65 10011.99


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     6.79  2789.89  2789.89      .00  2792.47      2.58      5.00       .04  2784.80
    2099.      88.     1881.     130.      16.     140.      22.      123.       60.   2783.10
      .41     5.68     13.47     5.86     .060     .055      .060      .000  2783.10  9982.20
  .021560     190.      210.     210.       20        8         0       .00    36.53 10018.73


*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     6.45  2839.85  2839.85      .00  2841.60      1.75     14.73       .08  2835.90
    2099.     402.     1676.      21.      73.     145.       6.      127.       61.   2835.60
      .43     5.53     11.57     3.53     .060     .050      .060      .000  2833.40  9947.93
  .016293     790.      790.     790.       20       11         0       .00    67.32 10015.25


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.82  2895.52  2895.52      .00  2897.08      1.56     16.83       .02  2888.80
    2099.     377.     1366.     356.      57.     117.      77.      133.       63.   2892.00
      .46     6.57     11.69     4.63     .060     .050      .060      .000  2888.70  9935.26
  .015401    1090.     1060.    1030.       20        8         0       .00    80.98 10016.25
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000    10.00  2960.30  2960.30      .00  2963.37      3.07     15.44       .45  2952.70
    2099.      200.     1582.      316.      31.      101.      45.      138.      64.   2952.50
      .48     6.43     15.72     7.08     .060      .050     .060      .000  2950.30  9991.79
  .017167     930.      950.      970.       20        14        0       .00    31.06 10022.86


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     8.88  3051.58  3051.58      .00  3054.29      2.71     15.46       .04  3043.90
    2099.      363.     1650.       86.      50.      114.      19.      142.      65.   3044.90
      .50     7.26     14.47     4.62     .060      .050     .060      .000  3042.70  9981.45
  .015431     970.      950.      930.       20        11        0       .00    35.57 10017.02


*SECNO 5350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.64  3165.94  3165.94      .00  3167.02      1.08     21.92       .16  3165.40
    2099.        1.     1829.      269.       1.      218.      33.      146.      67.   3161.40
      .53     1.99      8.37     8.11     .060      .055     .060      .000  3161.30  9905.78
  .038193     960.      950.      940.       20        11        0       .00   125.41 10031.19


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5510.000	5.68	3275.78	3275.78	.00	3277.95	2.17	22.87	.33	3270.60
2099.	148.	1724.	227.	24.	136.	35.	151.	69.	3270.20
.55	6.10	12.68	6.59	.060	.050	.060	.000	3270.10	9987.65
.020378	840.	840.	840.	20	11	0	.00	47.93	10035.57

*SECNO 5610.000

3301 HV CHANGED MORE THAN HVINS

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

5610.000	5.79	3330.59	3330.59	.00	3332.15	1.56	11.14	.06	3327.20
2099.	628.	1032.	439.	80.	85.	63.	153.	69.	3326.70
.57	7.83	12.09	6.93	.060	.050	.060	.000	3324.80	9954.96
.021722	520.	530.	540.	20	5	0	.00	72.81	10027.77

THIS RUN EXECUTED 9/24/90 16: 6:45

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	2030.000	2242.66	2274.00	3.66	2.99	4.76	2.40	66.31	2156.97	50.72	224.40	52.93	.00
	2030.000	2243.47	3445.00	4.47	3.16	5.31	2.67	107.85	3235.27	101.88	233.73	44.25	.00
	2030.000	2243.70	4047.00	4.70	3.41	5.79	2.92	129.64	3789.45	127.91	236.37	48.01	.00
	2030.000	2244.50	5109.00	5.50	3.33	5.84	3.26	176.92	4718.50	213.58	241.98	36.68	.00
*	2070.000	2248.75	2274.00	3.25	4.13	8.43	.04	53.18	2220.81	.00	130.62	137.04	6.09
*	2070.000	2249.47	3445.00	3.97	4.81	9.49	2.19	107.69	3334.79	2.52	143.17	128.18	6.00
*	2070.000	2249.80	4047.00	4.30	5.02	9.94	2.59	138.61	3903.06	5.33	145.91	121.75	6.10
*	2070.000	2250.34	5109.00	4.84	5.34	10.63	3.14	199.63	4896.40	12.96	149.97	112.40	5.84
*	2170.000	2258.70	2274.00	3.40	5.97	5.67	3.80	35.15	2200.25	38.59	379.48	233.60	9.95
*	2170.000	2259.05	3445.00	3.75	6.10	6.48	4.78	53.19	3316.05	75.76	395.91	219.55	9.57
*	2170.000	2259.21	4047.00	3.91	6.10	6.80	5.09	63.08	3887.99	95.92	398.06	208.43	9.41
*	2170.000	2259.46	5109.00	4.16	6.25	7.38	5.60	82.05	4894.24	132.70	401.34	201.45	9.12
*	2260.000	2270.82	2274.00	4.02	3.91	9.12	6.17	125.57	2088.49	59.93	123.87	118.05	12.12
*	2260.000	2272.00	3445.00	5.20	2.82	8.54	5.40	572.73	2784.31	87.96	330.57	64.76	12.95
*	2260.000	2272.24	4047.00	5.44	3.16	8.99	5.49	831.65	3114.21	101.13	336.77	66.21	13.03
*	2260.000	2272.64	5109.00	5.84	3.71	9.63	5.42	1337.18	3645.75	126.06	346.66	67.33	13.18
*	2310.000	2276.03	2274.00	2.83	.05	7.97	4.09	.00	2254.65	19.35	151.42	147.02	5.21
*	2310.000	2276.69	3445.00	3.49	2.34	8.96	4.43	14.06	3397.11	33.83	169.11	125.80	4.69
*	2310.000	2277.01	4047.00	3.81	3.26	9.30	4.54	40.85	3963.87	42.28	173.93	115.80	4.77
*	2310.000	2277.46	5109.00	4.26	4.46	10.05	4.85	102.97	4948.23	57.79	177.80	111.62	4.82
*	2400.000	2289.23	1652.00	3.83	4.90	7.05	5.12	99.40	1537.85	14.75	169.29	217.31	13.20
*	2400.000	2289.73	2499.00	4.33	5.87	7.72	5.92	194.03	2275.77	29.20	194.47	202.95	13.05
*	2400.000	2289.96	2992.00	4.56	6.31	8.12	6.35	251.91	2701.70	38.40	205.91	204.07	12.95
	2400.000	2290.34	3667.00	4.94	6.54	8.21	6.31	343.26	3269.92	53.81	230.81	180.94	12.88
*	2470.000	2300.27	1652.00	3.27	.00	7.60	4.45	.00	1639.46	12.54	128.76	158.13	11.04
*	2470.000	2300.92	2499.00	3.92	.00	8.16	2.37	.00	2463.86	35.14	182.84	132.00	11.19
*	2470.000	2301.25	2992.00	4.25	.05	8.35	2.42	.00	2910.89	81.10	208.94	115.88	11.29
*	2470.000	2301.59	3667.00	4.59	1.90	8.83	2.98	1.02	3494.59	171.39	218.39	109.18	11.25

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2580.000	2317.19	1652.00	3.49	2.60	7.08	.00	37.54	1614.46	.00	167.32	183.31	16.91
*	2580.000	2317.73	2499.00	4.03	3.91	7.66	.00	138.40	2360.59	.00	201.50	176.95	16.81
*	2580.000	2317.99	2992.00	4.29	4.40	7.93	.00	209.30	2782.70	.00	217.59	174.39	16.74
*	2580.000	2318.27	3667.00	4.57	4.88	8.47	.00	301.54	3365.46	.00	226.86	173.13	16.68
*	2650.000	2329.76	1652.00	3.76	7.76	6.34	.00	96.97	1555.03	.00	207.99	226.25	12.58
*	2650.000	2330.17	2499.00	4.17	8.32	7.03	.00	127.94	2371.06	.00	245.55	226.54	12.44
*	2650.000	2330.38	2992.00	4.38	8.38	7.36	.00	141.83	2850.17	.00	253.20	215.36	12.39
*	2650.000	2330.68	3667.00	4.68	8.26	7.59	.00	159.43	3507.56	.00	264.27	191.56	12.41
*	2720.000	2344.04	1652.00	2.24	.06	5.57	.06	.00	1652.00	.00	334.32	306.41	14.28
*	2720.000	2344.34	2499.00	2.54	1.53	6.32	1.67	.16	2496.06	2.78	343.48	273.01	14.16
*	2720.000	2344.50	2992.00	2.70	1.92	6.65	2.09	.43	2983.98	7.59	348.46	256.70	14.12
*	2720.000	2344.70	3667.00	2.90	2.33	7.08	2.55	1.03	3647.84	18.13	354.65	242.96	14.02
*	2780.000	2354.05	1652.00	3.25	.00	5.68	6.44	.00	454.18	1197.82	219.55	242.83	10.01
*	2780.000	2354.46	2499.00	3.66	.00	7.14	6.88	.00	869.37	1629.63	238.74	234.61	10.12
*	2780.000	2354.62	2992.00	3.82	.00	7.92	7.28	.00	1103.61	1888.38	246.59	244.35	10.12
*	2780.000	2354.88	3667.00	4.08	.00	8.64	7.46	.00	1447.02	2219.98	259.07	231.77	10.19
*	2850.000	2365.02	1652.00	4.62	5.09	8.38	.00	176.91	1475.04	.05	271.49	92.31	10.96
*	2850.000	2365.65	2499.00	5.25	6.71	9.54	.00	369.25	2129.67	.08	313.33	89.58	11.19
*	2850.000	2365.98	2992.00	5.58	7.42	10.05	.00	490.59	2501.31	.10	351.15	87.31	11.36
*	2850.000	2366.40	3667.00	6.00	8.26	10.71	.00	661.26	3005.61	.13	462.76	85.77	11.52
*	2970.000	2386.87	1652.00	4.37	1.61	3.01	6.57	2.82	168.22	1480.96	241.96	98.30	21.86
*	2970.000	2387.39	2499.00	4.89	2.53	3.50	6.81	19.46	411.21	2068.33	321.17	90.68	21.75
*	2970.000	2387.64	2992.00	5.14	2.87	3.74	6.90	34.29	582.68	2375.03	358.76	87.22	21.65
*	2970.000	2387.79	3667.00	5.29	3.37	4.28	7.64	50.81	783.02	2833.17	386.98	102.73	21.39
*	3090.000	2413.45	1652.00	4.15	3.40	8.46	.00	399.73	1252.20	.07	385.95	91.39	26.58
*	3090.000	2414.16	2499.00	4.86	4.13	8.73	.00	809.64	1689.25	.11	566.87	90.12	26.77
*	3090.000	2414.43	2992.00	5.13	4.57	8.98	.00	1057.10	1934.75	.15	623.05	97.72	26.80
*	3090.000	2414.74	3667.00	5.44	5.08	9.33	.00	1395.68	2271.13	.19	669.92	105.64	26.95
*	3170.000	2430.33	1652.00	4.33	.00	8.28	.00	.00	1652.00	.00	96.59	145.85	16.88
*	3170.000	2431.11	2499.00	5.11	.00	8.85	.51	.00	2498.37	.63	135.73	130.51	16.96
*	3170.000	2431.50	2992.00	5.50	.00	9.10	1.70	.00	2965.60	26.40	157.40	116.24	17.06
*	3170.000	2431.91	3667.00	5.91	.00	9.56	2.59	.00	3579.17	87.83	164.52	109.25	17.17
*	3290.000	2457.05	1029.00	4.95	1.28	5.45	8.87	.41	776.82	251.77	143.83	241.64	26.71
*	3290.000	2457.38	1494.00	5.28	2.30	6.27	9.48	4.08	1183.33	306.59	162.27	252.57	26.27
*	3290.000	2457.56	1714.00	5.46	2.64	6.44	9.30	8.01	1384.32	321.67	168.82	232.52	26.07
*	3290.000	2457.89	2099.00	5.79	3.08	6.58	8.90	18.78	1735.01	345.21	180.48	197.58	25.98
*	3390.000	2479.67	1029.00	4.47	.05	8.15	.00	.00	1028.99	.00	61.65	240.60	22.62
*	3390.000	2480.44	1494.00	5.24	3.14	7.97	.00	2.87	1491.13	.00	98.90	250.98	23.05
*	3390.000	2480.70	1714.00	5.50	3.57	7.95	.00	4.99	1709.01	.00	112.27	244.46	23.14
*	3390.000	2481.08	2099.00	5.88	4.13	8.05	.00	9.26	2089.74	.00	131.31	238.85	23.19

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3490.000	2500.24	1029.00	3.54	.00	8.42	.00	.00	1029.00	.00	56.29	186.10	20.57
*	3490.000	2500.96	1494.00	4.26	.00	8.93	2.05	.00	1492.29	1.71	70.32	177.09	20.52
*	3490.000	2501.25	1714.00	4.55	.00	9.12	2.58	.00	1709.53	4.47	75.99	173.14	20.54
*	3490.000	2501.67	2099.00	4.97	.04	9.52	3.27	.00	2087.20	11.80	83.55	169.68	20.59
*	3570.000	2518.68	1029.00	3.78	.00	8.55	.00	.00	1029.00	.00	53.86	141.79	18.45
*	3570.000	2519.37	1494.00	4.47	.04	9.36	.04	.00	1494.00	.00	61.16	135.45	18.41
*	3570.000	2519.65	1714.00	4.75	1.34	9.70	1.34	.38	1713.24	.38	63.91	130.60	18.40
*	3570.000	2520.10	2099.00	5.20	2.08	10.21	2.08	2.38	2094.21	2.41	68.37	124.16	18.44
*	3650.000	2537.39	1029.00	2.99	2.82	7.47	.00	4.82	1024.18	.00	82.63	151.04	18.70
*	3650.000	2537.88	1494.00	3.48	3.39	8.32	.04	11.07	1482.93	.00	88.39	141.98	18.51
*	3650.000	2538.08	1714.00	3.68	3.58	8.70	1.38	14.53	1699.17	.30	89.18	137.27	18.43
*	3650.000	2538.42	2099.00	4.02	3.88	9.27	1.91	21.55	2076.25	1.20	90.52	129.93	18.32
*	3740.000	2564.21	1029.00	2.11	4.47	5.18	4.22	41.09	977.35	10.55	217.83	333.39	26.82
*	3740.000	2564.41	1494.00	2.31	5.09	6.18	4.81	60.16	1418.39	15.45	219.90	366.47	26.53
*	3740.000	2564.52	1714.00	2.42	5.23	6.47	4.93	69.80	1626.26	17.93	221.01	355.33	26.43
*	3740.000	2564.71	2099.00	2.61	5.37	6.85	5.07	87.84	1988.59	22.57	223.01	328.01	26.29
*	3830.000	2585.29	1029.00	3.89	4.98	7.32	.00	15.07	1013.93	.00	91.48	339.93	21.09
*	3830.000	2585.77	1494.00	4.37	5.42	8.04	.00	23.98	1470.01	.00	98.93	312.34	21.37
*	3830.000	2585.98	1714.00	4.58	5.58	8.29	.00	28.59	1685.41	.00	102.18	300.40	21.47
*	3830.000	2586.30	2099.00	4.90	5.90	8.76	.00	36.96	2062.04	.00	107.08	293.55	21.59
*	3930.000	2612.78	1029.00	3.28	.00	6.93	7.41	.00	901.63	127.37	101.42	342.74	27.48
*	3930.000	2613.38	1494.00	3.88	.00	6.22	7.75	.00	1307.30	186.70	169.11	298.39	27.61
*	3930.000	2613.52	1714.00	4.02	.00	6.48	7.92	.00	1508.99	205.01	175.39	297.63	27.54
*	3930.000	2613.73	2099.00	4.23	.05	6.97	8.18	.00	1864.48	234.52	181.56	296.87	27.43
*	3990.000	2628.28	1029.00	5.38	7.37	10.42	2.73	143.74	881.89	3.37	36.23	219.82	15.50
*	3990.000	2629.20	1494.00	6.30	7.71	11.63	3.88	206.40	1271.21	16.39	39.40	195.12	15.82
*	3990.000	2629.62	1714.00	6.72	7.82	12.06	4.28	237.58	1450.19	26.22	40.82	184.49	16.09
*	3990.000	2630.23	2099.00	7.33	8.13	12.87	4.87	293.92	1758.11	46.96	42.93	177.27	16.49
*	4070.000	2656.67	1029.00	8.27	.00	11.61	.00	.00	1029.00	.00	21.82	270.47	28.39
*	4070.000	2657.98	1494.00	9.58	.00	12.48	.00	.00	1494.00	.00	25.40	256.30	28.78
*	4070.000	2658.51	1714.00	10.11	.00	12.85	.05	.00	1714.00	.00	27.10	250.42	28.89
*	4070.000	2659.26	2099.00	10.86	1.72	13.64	2.60	.38	2096.29	2.33	29.76	237.27	29.03
*	4190.000	2700.29	1029.00	5.19	4.28	11.13	.00	17.78	1011.22	.00	26.28	211.27	43.62
*	4190.000	2701.44	1494.00	6.34	5.36	12.29	.00	48.78	1445.22	.00	28.85	196.96	43.46
*	4190.000	2701.93	1714.00	6.83	5.77	12.73	.00	68.05	1645.95	.00	29.94	191.81	43.42
*	4190.000	2702.67	2099.00	7.57	6.34	13.53	1.49	104.99	1993.51	.50	32.64	185.01	43.41
*	4280.000	2731.89	1029.00	4.39	4.30	9.84	4.11	36.31	971.46	21.23	42.18	186.33	31.60
*	4280.000	2732.75	1494.00	5.25	5.07	10.95	4.84	80.87	1365.85	47.28	46.64	168.69	31.31
*	4280.000	2733.11	1714.00	5.61	5.36	11.38	5.12	106.34	1545.47	62.18	48.53	162.91	31.18
*	4280.000	2733.70	2099.00	6.20	5.79	12.06	5.53	156.51	1850.98	91.51	51.56	155.32	31.02

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	4380.000	2759.64	1029.00	5.54	1.67	10.13	3.81	.49	1013.72	14.78	36.20	298.74	27.75
*	4380.000	2760.63	1494.00	6.53	3.06	11.04	4.65	7.19	1428.41	58.40	44.71	252.16	27.88
*	4380.000	2761.07	1714.00	6.97	3.55	11.32	4.90	13.77	1609.97	90.26	48.43	233.38	27.96
*	4380.000	2761.70	2099.00	7.60	4.55	11.89	5.32	30.48	1913.18	155.34	53.69	218.16	28.00
*	4420.000	2774.38	1029.00	4.88	2.10	10.50	.00	1.43	1027.57	.00	30.22	326.19	14.74
*	4420.000	2775.42	1494.00	5.92	3.70	11.60	.00	15.96	1478.04	.00	33.98	295.36	14.78
*	4420.000	2775.84	1714.00	6.34	4.24	12.04	.00	28.55	1685.45	.00	35.54	287.29	14.78
*	4420.000	2776.55	2099.00	7.05	4.93	12.69	1.70	58.83	2039.62	.55	38.65	265.96	14.85
*	4460.000	2787.59	1029.00	4.49	4.21	11.00	4.50	19.73	975.68	33.59	30.11	262.96	13.21
*	4460.000	2788.67	1494.00	5.57	4.98	12.27	5.18	44.65	1380.66	68.69	33.11	238.42	13.25
*	4460.000	2789.15	1714.00	6.05	5.24	12.69	5.43	59.56	1564.92	89.52	34.47	225.89	13.31
*	4460.000	2789.89	2099.00	6.79	5.68	13.47	5.86	88.25	1881.07	129.68	36.53	215.60	13.33
*	4610.000	2838.03	1029.00	4.63	3.66	9.84	2.72	76.65	946.98	5.37	48.00	203.14	50.43
*	4610.000	2839.00	1494.00	5.60	4.51	10.47	3.09	201.09	1280.92	11.99	58.02	167.18	50.34
*	4610.000	2839.34	1714.00	5.94	4.94	10.88	3.26	271.06	1427.69	15.25	61.70	164.33	50.18
*	4610.000	2839.85	2099.00	6.45	5.53	11.57	3.53	401.93	1675.71	21.36	67.32	162.93	49.96
*	4810.000	2893.65	1029.00	4.95	6.10	10.37	2.68	181.65	817.48	29.87	50.67	205.15	55.62
*	4810.000	2894.78	1494.00	6.08	5.99	10.50	3.44	271.28	1068.79	153.92	78.12	149.50	55.78
*	4810.000	2895.08	1714.00	6.38	6.21	10.95	3.90	309.70	1180.30	224.01	79.26	150.63	55.74
*	4810.000	2895.52	2099.00	6.82	6.57	11.69	4.63	376.54	1366.49	355.97	80.98	154.01	55.68
*	4990.000	2957.44	1029.00	7.14	4.96	12.80	5.52	60.01	870.24	98.75	23.77	191.67	63.79
*	4990.000	2958.83	1494.00	8.53	5.69	14.23	6.29	115.39	1193.41	185.21	27.32	179.09	64.05
*	4990.000	2959.42	1714.00	9.12	5.96	14.76	6.58	145.25	1337.33	231.42	28.82	174.01	64.34
*	4990.000	2960.30	2099.00	10.00	6.43	15.72	7.08	200.32	1582.36	316.32	31.06	171.67	64.77
*	5170.000	3048.70	1029.00	6.00	5.77	12.39	3.46	112.22	902.17	14.60	24.64	206.06	91.26
*	5170.000	3050.02	1494.00	7.32	6.42	13.68	4.17	203.42	1254.93	35.65	29.36	184.34	91.19
*	5170.000	3050.76	1714.00	8.06	6.49	13.70	4.26	258.23	1401.93	53.84	32.28	160.03	91.34
*	5170.000	3051.58	2099.00	8.88	7.26	14.47	4.62	362.74	1650.12	86.13	35.57	154.31	91.29
*	5350.000	3164.99	1029.00	3.69	.00	7.14	7.14	.00	880.99	148.00	93.05	405.10	116.29
*	5350.000	3165.52	1494.00	4.22	.05	7.41	7.61	.00	1286.14	207.86	117.59	382.51	115.50
*	5350.000	3165.69	1714.00	4.39	1.31	7.77	7.82	.20	1482.61	231.18	121.69	383.66	114.93
*	5350.000	3165.94	2099.00	4.64	1.99	8.37	8.11	1.09	1829.03	268.88	125.41	381.93	114.36
*	5510.000	3273.92	1029.00	3.82	4.93	10.26	5.47	49.20	895.71	84.10	40.46	240.70	108.93
*	5510.000	3274.81	1494.00	4.71	5.50	11.44	6.00	88.06	1264.36	141.58	44.03	218.32	109.29
*	5510.000	3275.19	1714.00	5.09	5.72	11.89	6.21	108.92	1433.29	171.78	45.57	209.96	109.50
*	5510.000	3275.78	2099.00	5.68	6.10	12.68	6.59	147.74	1723.85	227.42	47.93	203.78	109.84
*	5610.000	3329.21	1029.00	4.41	6.11	9.80	5.27	280.56	590.53	157.91	61.09	226.55	55.28
*	5610.000	3329.84	1494.00	5.04	7.07	11.07	6.20	429.27	793.16	271.57	66.42	229.53	55.03
*	5610.000	3330.11	1714.00	5.31	7.41	11.53	6.53	500.77	883.58	329.65	68.73	227.97	54.92
*	5610.000	3330.59	2099.00	5.79	7.83	12.09	6.93	627.94	1032.34	438.72	72.81	217.22	54.81

ILLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	2030.000	.00	.00	.00	2239.00	2274.00	2242.66	.00	2243.00	52.93	4.76	496.18	312.57
	2030.000	.00	.00	.00	2239.00	3445.00	2243.47	.00	2243.89	44.25	5.31	681.73	517.87
	2030.000	.00	.00	.00	2239.00	4047.00	2243.70	.00	2244.20	48.01	5.79	735.79	584.07
	2030.000	.00	.00	.00	2239.00	5109.00	2244.50	.00	2245.00	36.68	5.84	927.14	843.52
*	2070.000	210.00	.00	.00	2245.50	2274.00	2248.75	2248.75	2249.84	137.04	8.43	276.44	194.26
*	2070.000	210.00	.00	.00	2245.50	3445.00	2249.47	2249.47	2250.84	128.18	9.49	374.87	304.29
*	2070.000	210.00	.00	.00	2245.50	4047.00	2249.80	2249.80	2251.29	121.75	9.94	422.12	366.78
*	2070.000	210.00	.00	.00	2245.50	5109.00	2250.34	2250.34	2252.04	112.40	10.63	502.09	481.90
*	2170.000	530.00	.00	.00	2255.30	2274.00	2258.70	2258.63	2259.20	233.60	5.67	404.00	148.78
*	2170.000	530.00	.00	.00	2255.30	3445.00	2259.05	2259.05	2259.69	219.55	6.48	536.32	232.50
*	2170.000	530.00	.00	.00	2255.30	4047.00	2259.21	2259.21	2259.92	208.43	6.80	601.06	280.32
*	2170.000	530.00	.00	.00	2255.30	5109.00	2259.46	2259.46	2260.29	201.45	7.38	700.20	359.96
*	2260.000	480.00	.00	.00	2266.80	2274.00	2270.82	2270.82	2272.04	118.05	9.12	270.92	209.29
*	2260.000	480.00	.00	.00	2266.80	3445.00	2272.00	2272.00	2272.94	64.76	8.54	545.19	428.10
*	2260.000	480.00	.00	.00	2266.80	4047.00	2272.24	2272.24	2273.25	66.21	8.99	627.55	497.37
	2260.000	480.00	.00	.00	2266.80	5109.00	2272.64	2272.64	2273.73	67.33	9.63	762.04	622.65
*	2310.000	220.00	.00	.00	2273.20	2274.00	2276.03	2276.03	2277.01	147.02	7.97	287.65	187.54
*	2310.000	220.00	.00	.00	2273.20	3445.00	2276.69	2276.69	2277.92	125.80	8.96	392.74	307.15
*	2310.000	220.00	.00	.00	2273.20	4047.00	2277.01	2277.01	2278.33	115.80	9.30	448.19	376.08
*	2310.000	220.00	.00	.00	2273.20	5109.00	2277.46	2277.46	2278.99	111.62	10.05	527.41	483.57
*	2400.000	480.00	.00	.00	2285.40	1652.00	2289.23	2289.23	2289.98	217.31	7.05	241.24	112.06
*	2400.000	480.00	.00	.00	2285.40	2499.00	2289.73	2289.73	2290.63	202.95	7.72	332.76	175.42
*	2400.000	480.00	.00	.00	2285.40	2992.00	2289.96	2289.96	2290.95	204.07	8.12	378.51	209.45
*	2400.000	480.00	.00	.00	2285.40	3667.00	2290.34	2290.34	2291.34	180.94	8.21	459.44	272.61
*	2470.000	320.00	.00	.00	2297.00	1652.00	2300.27	2300.27	2301.16	158.13	7.60	218.64	131.37
*	2470.000	320.00	.00	.00	2297.00	2499.00	2300.92	2300.92	2301.94	132.00	8.16	316.70	217.51
*	2470.000	320.00	.00	.00	2297.00	2992.00	2301.25	2301.25	2302.31	115.88	8.35	382.11	277.94
*	2470.000	320.00	.00	.00	2297.00	3667.00	2301.59	2301.59	2302.75	109.18	8.83	453.99	350.95
*	2580.000	580.00	.00	.00	2313.70	1652.00	2317.19	2317.19	2317.95	183.31	7.08	242.58	122.02
*	2580.000	580.00	.00	.00	2313.70	2499.00	2317.73	2317.73	2318.61	176.95	7.66	343.72	187.87
*	2580.000	580.00	.00	.00	2313.70	2992.00	2317.99	2317.99	2318.92	174.39	7.93	398.41	226.57
*	2580.000	580.00	.00	.00	2313.70	3667.00	2318.27	2318.27	2319.32	173.13	8.47	459.31	278.69
*	2650.000	370.00	.00	.00	2326.00	1652.00	2329.76	2329.76	2330.41	226.25	6.34	257.59	109.83
*	2650.000	370.00	.00	.00	2326.00	2499.00	2330.17	2330.17	2330.96	226.54	7.03	352.75	166.03
*	2650.000	370.00	.00	.00	2326.00	2992.00	2330.38	2330.38	2331.23	215.36	7.36	404.08	203.88
	2650.000	370.00	.00	.00	2326.00	3667.00	2330.68	2330.68	2331.58	191.56	7.59	481.15	264.95

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2720.000	410.00	.00	.00	2341.80	1652.00	2344.04	2344.04	2344.52	306.41	5.57	296.82	94.37
*	2720.000	410.00	.00	.00	2341.80	2499.00	2344.34	2344.34	2344.96	273.01	6.32	396.85	151.24
*	2720.000	410.00	.00	.00	2341.80	2992.00	2344.50	2344.50	2345.18	256.70	6.65	452.35	186.74
*	2720.000	410.00	.00	.00	2341.80	3667.00	2344.70	2344.70	2345.47	242.96	7.08	522.47	235.26
*	2780.000	280.00	.00	.00	2350.80	1652.00	2354.05	2354.05	2354.66	242.83	5.68	265.85	106.01
*	2780.000	280.00	.00	.00	2350.80	2499.00	2354.46	2354.46	2355.21	234.61	7.14	358.57	163.15
*	2780.000	280.00	.00	.00	2350.80	2992.00	2354.62	2354.62	2355.50	244.35	7.92	398.62	191.41
*	2780.000	280.00	.00	.00	2350.80	3667.00	2354.88	2354.88	2355.86	231.77	8.64	464.86	240.87
*	2850.000	370.00	.00	.00	2360.40	1652.00	2365.02	2365.02	2366.03	92.31	8.38	415.35	171.95
*	2850.000	370.00	.00	.00	2360.40	2499.00	2365.65	2365.65	2366.96	89.58	9.54	599.27	264.03
*	2850.000	370.00	.00	.00	2360.40	2992.00	2365.98	2365.98	2367.44	87.31	10.05	710.53	320.20
*	2850.000	370.00	.00	.00	2360.40	3667.00	2366.40	2366.40	2368.05	85.77	10.71	873.04	395.96
*	2970.000	635.00	.00	.00	2382.50	1652.00	2386.87	2386.87	2387.49	98.30	3.01	282.99	166.62
*	2970.000	635.00	.00	.00	2382.50	2499.00	2387.39	2387.39	2388.02	90.68	3.50	429.00	262.42
*	2970.000	635.00	.00	.00	2382.50	2992.00	2387.64	2387.64	2388.27	87.22	3.74	511.88	320.38
*	2970.000	635.00	.00	.00	2382.50	3667.00	2387.79	2387.79	2388.55	102.73	4.28	568.85	361.79
*	3090.000	690.00	.00	.00	2409.30	1652.00	2413.45	2413.45	2414.34	91.39	8.46	530.50	172.80
*	3090.000	690.00	.00	.00	2409.30	2499.00	2414.16	2414.16	2415.04	90.12	8.73	874.42	263.24
*	3090.000	690.00	.00	.00	2409.30	2992.00	2414.43	2414.43	2415.36	97.72	8.98	1038.14	302.68
*	3090.000	690.00	.00	.00	2409.30	3667.00	2414.74	2414.74	2415.73	105.64	9.33	1239.38	356.77
*	3170.000	420.00	.00	.00	2426.00	1652.00	2430.33	2430.33	2431.40	145.85	8.28	199.45	136.79
*	3170.000	420.00	.00	.00	2426.00	2499.00	2431.11	2431.11	2432.33	130.51	8.85	283.59	218.75
*	3170.000	420.00	.00	.00	2426.00	2992.00	2431.50	2431.50	2432.77	116.24	9.10	341.58	277.52
*	3170.000	420.00	.00	.00	2426.00	3667.00	2431.91	2431.91	2433.30	109.25	9.56	408.18	350.83
*	3290.000	630.00	.00	.00	2452.10	1029.00	2457.05	2457.05	2457.70	241.64	5.45	171.16	66.20
*	3290.000	630.00	.00	.00	2452.10	1494.00	2457.38	2457.38	2458.16	252.57	6.27	222.76	94.01
*	3290.000	630.00	.00	.00	2452.10	1714.00	2457.56	2457.56	2458.34	232.52	6.44	252.59	112.40
*	3290.000	630.00	.00	.00	2452.10	2099.00	2457.89	2457.89	2458.64	197.58	6.58	308.58	149.33
*	3390.000	530.00	.00	.00	2475.20	1029.00	2479.67	2479.67	2480.70	240.60	8.15	126.41	66.34
*	3390.000	530.00	.00	.00	2475.20	1494.00	2480.44	2480.44	2481.42	250.98	7.97	187.94	94.30
*	3390.000	530.00	.00	.00	2475.20	1714.00	2480.70	2480.70	2481.68	244.46	7.95	216.36	109.62
*	3390.000	530.00	.00	.00	2475.20	2099.00	2481.08	2481.08	2482.08	238.85	8.05	261.91	135.82
*	3490.000	530.00	.00	.00	2496.70	1029.00	2500.24	2500.24	2501.34	186.10	8.42	122.25	75.43
*	3490.000	530.00	.00	.00	2496.70	1494.00	2500.96	2500.96	2502.19	177.09	8.93	167.96	112.27
*	3490.000	530.00	.00	.00	2496.70	1714.00	2501.25	2501.25	2502.54	173.14	9.12	189.11	130.26
*	3490.000	530.00	.00	.00	2496.70	2099.00	2501.67	2501.67	2503.07	169.68	9.52	222.81	161.14
*	3570.000	420.00	.00	.00	2514.90	1029.00	2518.68	2518.68	2519.82	141.79	8.55	120.30	86.42
*	3570.000	420.00	.00	.00	2514.90	1494.00	2519.37	2519.37	2520.73	135.45	9.36	159.69	128.37
*	3570.000	420.00	.00	.00	2514.90	1714.00	2519.65	2519.65	2521.11	130.60	9.70	177.24	149.98
*	3570.000	420.00	.00	.00	2514.90	2099.00	2520.10	2520.10	2521.72	124.16	10.21	207.35	188.37

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3650.000	420.00	.00	.00	2534.40	1029.00	2537.39	2537.39	2538.25	151.04	7.47	138.90	83.73
*	3650.000	420.00	.00	.00	2534.40	1494.00	2537.88	2537.88	2538.95	141.98	8.32	181.48	125.38
*	3650.000	420.00	.00	.00	2534.40	1714.00	2538.08	2538.08	2539.25	137.27	8.70	199.53	146.29
*	3650.000	420.00	.00	.00	2534.40	2099.00	2538.42	2538.42	2539.75	129.93	9.27	230.07	184.15
*	3740.000	480.00	.00	.00	2562.10	1029.00	2564.21	2564.21	2564.62	333.39	5.18	200.40	56.36
*	3740.000	480.00	.00	.00	2562.10	1494.00	2564.41	2564.41	2564.99	366.47	6.18	244.37	78.04
*	3740.000	480.00	.00	.00	2562.10	1714.00	2564.52	2564.52	2565.15	355.33	6.47	268.27	90.93
*	3740.000	480.00	.00	.00	2562.10	2099.00	2564.71	2564.71	2565.42	328.01	6.85	311.20	115.90
*	3830.000	380.00	.00	.00	2581.40	1029.00	2585.29	2585.29	2586.12	339.93	7.32	141.56	55.81
*	3830.000	380.00	.00	.00	2581.40	1494.00	2585.77	2585.77	2586.77	312.34	8.04	187.35	84.54
*	3830.000	380.00	.00	.00	2581.40	1714.00	2585.98	2585.98	2587.04	300.40	8.29	208.51	98.89
*	3830.000	380.00	.00	.00	2581.40	2099.00	2586.30	2586.30	2587.48	293.55	8.76	241.57	122.51
*	3930.000	530.00	.00	.00	2609.50	1029.00	2612.78	2612.78	2613.54	342.74	6.93	147.22	55.58
*	3930.000	530.00	.00	.00	2609.50	1494.00	2613.38	2613.38	2614.02	298.39	6.22	234.38	86.49
*	3930.000	530.00	.00	.00	2609.50	1714.00	2613.52	2613.52	2614.22	297.63	6.48	258.60	99.35
*	3930.000	530.00	.00	.00	2609.50	2099.00	2613.73	2613.73	2614.52	296.87	6.97	296.24	121.82
*	3990.000	320.00	.00	.00	2622.90	1029.00	2628.28	2628.28	2629.84	219.82	10.42	105.41	69.40
*	3990.000	320.00	.00	.00	2622.90	1494.00	2629.20	2629.20	2631.12	195.12	11.63	140.26	106.95
*	3990.000	320.00	.00	.00	2622.90	1714.00	2629.62	2629.62	2631.66	184.49	12.06	156.77	126.19
*	3990.000	320.00	.00	.00	2622.90	2099.00	2630.23	2630.23	2632.53	177.27	12.87	182.43	157.65
*	4070.000	420.00	.00	.00	2648.40	1029.00	2656.67	2656.67	2658.76	270.47	11.61	88.65	62.57
*	4070.000	420.00	.00	.00	2648.40	1494.00	2657.98	2657.98	2660.40	256.30	12.48	119.67	93.32
*	4070.000	420.00	.00	.00	2648.40	1714.00	2658.51	2658.51	2661.07	250.42	12.85	133.40	108.31
*	4070.000	420.00	.00	.00	2648.40	2099.00	2659.26	2659.26	2662.15	237.27	13.64	154.84	136.27
*	4190.000	630.00	.00	.00	2695.10	1029.00	2700.29	2700.29	2702.19	211.27	11.13	95.04	70.79
*	4190.000	630.00	.00	.00	2695.10	1494.00	2701.44	2701.44	2703.72	196.96	12.29	126.65	106.45
*	4190.000	630.00	.00	.00	2695.10	1714.00	2701.93	2701.93	2704.37	191.81	12.73	141.06	123.76
*	4190.000	630.00	.00	.00	2695.10	2099.00	2702.67	2702.67	2705.40	185.01	13.53	164.20	154.32
*	4280.000	480.00	.00	.00	2727.50	1029.00	2731.89	2731.89	2733.32	186.33	9.84	112.31	75.38
*	4280.000	480.00	.00	.00	2727.50	1494.00	2732.75	2732.75	2734.48	168.69	10.95	150.51	115.03
*	4280.000	480.00	.00	.00	2727.50	1714.00	2733.11	2733.11	2734.97	162.91	11.38	167.81	134.29
*	4280.000	480.00	.00	.00	2727.50	2099.00	2733.70	2733.70	2735.75	155.32	12.06	197.04	168.42
*	4380.000	530.00	.00	.00	2754.10	1029.00	2759.64	2759.64	2761.22	298.74	10.13	104.25	59.53
*	4380.000	530.00	.00	.00	2754.10	1494.00	2760.63	2760.63	2762.46	252.16	11.04	144.26	94.08
*	4380.000	530.00	.00	.00	2754.10	1714.00	2761.07	2761.07	2762.96	233.38	11.32	164.54	112.20
*	4380.000	530.00	.00	.00	2754.10	2099.00	2761.70	2761.70	2763.74	218.16	11.89	196.87	142.11
*	4420.000	210.00	.00	.00	2769.50	1029.00	2774.38	2774.38	2776.09	326.19	10.50	98.56	56.97
*	4420.000	210.00	.00	.00	2769.50	1494.00	2775.42	2775.42	2777.48	295.36	11.60	131.75	86.93
*	4420.000	210.00	.00	.00	2769.50	1714.00	2775.84	2775.84	2778.06	287.29	12.04	146.67	101.12
*	4420.000	210.00	.00	.00	2769.50	2099.00	2776.55	2776.55	2778.99	265.96	12.69	172.96	128.71

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	4460.000	210.00	.00	.00	2783.10	1029.00	2787.59	2787.59	2789.39	262.96	11.00	100.87	63.46
*	4460.000	210.00	.00	.00	2783.10	1494.00	2788.67	2788.67	2790.86	238.42	12.27	134.76	96.76
*	4460.000	210.00	.00	.00	2783.10	1714.00	2789.15	2789.15	2791.47	225.89	12.69	151.15	114.04
*	4460.000	210.00	.00	.00	2783.10	2099.00	2789.89	2789.89	2792.47	215.60	13.47	177.26	142.95
*	4610.000	790.00	.00	.00	2833.40	1029.00	2838.03	2838.03	2839.43	203.14	9.84	119.12	72.20
*	4610.000	790.00	.00	.00	2833.40	1494.00	2839.00	2839.00	2840.51	167.18	10.47	170.75	115.55
*	4610.000	790.00	.00	.00	2833.40	1714.00	2839.34	2839.34	2840.93	164.33	10.88	190.70	133.71
*	4610.000	790.00	.00	.00	2833.40	2099.00	2839.85	2839.85	2841.60	162.93	11.57	223.57	164.44
*	4810.000	1060.00	.00	.00	2888.70	1029.00	2893.65	2893.65	2895.08	205.15	10.37	119.73	71.84
*	4810.000	1060.00	.00	.00	2888.70	1494.00	2894.78	2894.78	2896.13	149.50	10.50	191.86	122.19
*	4810.000	1060.00	.00	.00	2888.70	1714.00	2895.08	2895.08	2896.50	150.63	10.95	215.12	139.66
*	4810.000	1060.00	.00	.00	2888.70	2099.00	2895.52	2895.52	2897.08	154.01	11.69	251.11	169.14
*	4990.000	950.00	.00	.00	2950.30	1029.00	2957.44	2957.44	2959.65	191.67	12.80	98.02	74.33
*	4990.000	950.00	.00	.00	2950.30	1494.00	2958.83	2958.83	2961.45	179.09	14.23	133.60	111.64
*	4990.000	950.00	.00	.00	2950.30	1714.00	2959.42	2959.42	2962.19	174.01	14.76	150.13	129.94
*	4990.000	950.00	.00	.00	2950.30	2099.00	2960.30	2960.30	2963.37	171.67	15.72	176.47	160.20
*	5170.000	950.00	.00	.00	3042.70	1029.00	3048.70	3048.70	3050.85	206.06	12.39	96.48	71.68
*	5170.000	950.00	.00	.00	3042.70	1494.00	3050.02	3050.02	3052.56	184.34	13.68	132.00	110.04
*	5170.000	950.00	.00	.00	3042.70	1714.00	3050.76	3050.76	3053.25	160.03	13.70	154.75	135.49
*	5170.000	950.00	.00	.00	3042.70	2099.00	3051.58	3051.58	3054.29	154.31	14.47	182.62	168.97
*	5350.000	950.00	.00	.00	3161.30	1029.00	3164.99	3164.99	3165.78	405.10	7.14	144.07	51.13
*	5350.000	950.00	.00	.00	3161.30	1494.00	3165.52	3165.52	3166.38	382.51	7.41	200.84	76.39
*	5350.000	950.00	.00	.00	3161.30	1714.00	3165.69	3165.69	3166.63	383.66	7.77	220.61	87.51
*	5350.000	950.00	.00	.00	3161.30	2099.00	3165.94	3165.94	3167.02	381.93	8.37	252.13	107.40
*	5510.000	840.00	.00	.00	3270.10	1029.00	3273.92	3273.92	3275.40	240.70	10.26	112.64	66.32
*	5510.000	840.00	.00	.00	3270.10	1494.00	3274.81	3274.81	3276.61	218.32	11.44	150.12	101.11
*	5510.000	840.00	.00	.00	3270.10	1714.00	3275.19	3275.19	3277.12	209.96	11.89	167.29	118.29
*	5510.000	840.00	.00	.00	3270.10	2099.00	3275.78	3275.78	3277.95	203.78	12.68	194.65	147.04
*	5610.000	530.00	.00	.00	3324.80	1029.00	3329.21	3329.21	3330.29	226.55	9.80	136.14	68.36
*	5610.000	530.00	.00	.00	3324.80	1494.00	3329.84	3329.84	3331.18	229.53	11.07	176.27	98.61
*	5610.000	530.00	.00	.00	3324.80	1714.00	3330.11	3330.11	3331.55	227.97	11.53	194.76	113.52
*	5610.000	530.00	.00	.00	3324.80	2099.00	3330.59	3330.59	3332.15	217.22	12.09	228.89	142.42

LLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	2030.000	2274.00	2242.66	.00	.00	.00	224.40	.00
	2030.000	3445.00	2243.47	.81	.00	.00	233.73	.00
	2030.000	4047.00	2243.70	.23	.00	.00	236.37	.00
	2030.000	5109.00	2244.50	.80	.00	.00	241.98	.00
*	2070.000	2274.00	2248.75	.00	6.09	.00	130.62	210.00
*	2070.000	3445.00	2249.47	.72	6.00	.00	143.17	210.00
*	2070.000	4047.00	2249.80	.33	6.10	.00	145.91	210.00
*	2070.000	5109.00	2250.34	.54	5.84	.00	149.97	210.00
*	2170.000	2274.00	2258.70	.00	9.95	.00	379.48	530.00
*	2170.000	3445.00	2259.05	.34	9.57	.00	395.91	530.00
*	2170.000	4047.00	2259.21	.16	9.41	.00	398.06	530.00
*	2170.000	5109.00	2259.46	.25	9.12	.00	401.34	530.00
*	2260.000	2274.00	2270.82	.00	12.12	.00	123.87	480.00
*	2260.000	3445.00	2272.00	1.18	12.95	.00	330.57	480.00
*	2260.000	4047.00	2272.24	.25	13.03	.00	336.77	480.00
*	2260.000	5109.00	2272.64	.39	13.18	.00	346.66	480.00
*	2310.000	2274.00	2276.03	.00	5.21	.00	151.42	220.00
*	2310.000	3445.00	2276.69	.66	4.69	.00	169.11	220.00
*	2310.000	4047.00	2277.01	.32	4.77	.00	173.93	220.00
*	2310.000	5109.00	2277.46	.45	4.82	.00	177.80	220.00
*	2400.000	1652.00	2289.23	.00	13.20	.00	169.29	480.00
*	2400.000	2499.00	2289.73	.50	13.05	.00	194.47	480.00
*	2400.000	2992.00	2289.96	.23	12.95	.00	205.91	480.00
*	2400.000	3667.00	2290.34	.37	12.88	.00	230.81	480.00
*	2470.000	1652.00	2300.27	.00	11.04	.00	128.76	320.00
*	2470.000	2499.00	2300.92	.65	11.19	.00	182.84	320.00
*	2470.000	2992.00	2301.25	.33	11.29	.00	208.94	320.00
*	2470.000	3667.00	2301.59	.34	11.25	.00	218.39	320.00
*	2580.000	1652.00	2317.19	.00	16.91	.00	167.32	580.00
*	2580.000	2499.00	2317.73	.55	16.81	.00	201.50	580.00
*	2580.000	2992.00	2317.99	.26	16.74	.00	217.59	580.00
*	2580.000	3667.00	2318.27	.27	16.68	.00	226.86	580.00
*	2650.000	1652.00	2329.76	.00	12.58	.00	207.99	370.00
*	2650.000	2499.00	2330.17	.41	12.44	.00	245.55	370.00
*	2650.000	2992.00	2330.38	.21	12.39	.00	253.20	370.00
*	2650.000	3667.00	2330.68	.30	12.41	.00	264.27	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2720.000	1652.00	2344.04	.00	14.28	.00	334.32	410.00
*	2720.000	2499.00	2344.34	.30	14.16	.00	343.48	410.00
*	2720.000	2992.00	2344.50	.16	14.12	.00	348.46	410.00
*	2720.000	3667.00	2344.70	.20	14.02	.00	354.65	410.00
*	2780.000	1652.00	2354.05	.00	10.01	.00	219.55	280.00
*	2780.000	2499.00	2354.46	.40	10.12	.00	238.74	280.00
*	2780.000	2992.00	2354.62	.17	10.12	.00	246.59	280.00
*	2780.000	3667.00	2354.88	.26	10.19	.00	259.07	280.00
*	2850.000	1652.00	2365.02	.00	10.96	.00	271.49	370.00
*	2850.000	2499.00	2365.65	.63	11.19	.00	313.33	370.00
*	2850.000	2992.00	2365.98	.34	11.36	.00	351.15	370.00
*	2850.000	3667.00	2366.40	.42	11.52	.00	462.76	370.00
*	2970.000	1652.00	2386.87	.00	21.86	.00	241.96	635.00
*	2970.000	2499.00	2387.39	.52	21.75	.00	321.17	635.00
*	2970.000	2992.00	2387.64	.24	21.65	.00	358.76	635.00
*	2970.000	3667.00	2387.79	.15	21.39	.00	386.98	635.00
*	3090.000	1652.00	2413.45	.00	26.58	.00	385.95	690.00
*	3090.000	2499.00	2414.16	.71	26.77	.00	566.87	690.00
*	3090.000	2992.00	2414.43	.27	26.80	.00	623.05	690.00
*	3090.000	3667.00	2414.74	.31	26.95	.00	669.92	690.00
*	3170.000	1652.00	2430.33	.00	16.88	.00	96.59	420.00
*	3170.000	2499.00	2431.11	.78	16.96	.00	135.73	420.00
*	3170.000	2992.00	2431.50	.38	17.06	.00	157.40	420.00
*	3170.000	3667.00	2431.91	.41	17.17	.00	164.52	420.00
*	3290.000	1029.00	2457.05	.00	26.71	.00	143.83	630.00
*	3290.000	1494.00	2457.38	.34	26.27	.00	162.27	630.00
*	3290.000	1714.00	2457.56	.18	26.07	.00	168.82	630.00
*	3290.000	2099.00	2457.89	.32	25.98	.00	180.48	630.00
*	3390.000	1029.00	2479.67	.00	22.62	.00	61.65	530.00
*	3390.000	1494.00	2480.44	.77	23.05	.00	98.90	530.00
*	3390.000	1714.00	2480.70	.27	23.14	.00	112.27	530.00
*	3390.000	2099.00	2481.08	.37	23.19	.00	131.31	530.00
*	3490.000	1029.00	2500.24	.00	20.57	.00	56.29	530.00
*	3490.000	1494.00	2500.96	.72	20.52	.00	70.32	530.00
*	3490.000	1714.00	2501.25	.29	20.54	.00	75.99	530.00
*	3490.000	2099.00	2501.67	.42	20.59	.00	83.55	530.00
*	3570.000	1029.00	2518.68	.00	18.45	.00	53.86	420.00
*	3570.000	1494.00	2519.37	.68	18.41	.00	61.16	420.00
*	3570.000	1714.00	2519.65	.28	18.40	.00	63.91	420.00
*	3570.000	2099.00	2520.10	.46	18.44	.00	68.37	420.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3650.000	1029.00	2537.39	.00	18.70	.00	82.63	420.00
*	3650.000	1494.00	2537.88	.49	18.51	.00	88.39	420.00
*	3650.000	1714.00	2538.08	.20	18.43	.00	89.18	420.00
*	3650.000	2099.00	2538.42	.34	18.32	.00	90.52	420.00
*	3740.000	1029.00	2564.21	.00	26.82	.00	217.83	480.00
*	3740.000	1494.00	2564.41	.20	26.53	.00	219.90	480.00
*	3740.000	1714.00	2564.52	.11	26.43	.00	221.01	480.00
*	3740.000	2099.00	2564.71	.19	26.29	.00	223.01	480.00
*	3830.000	1029.00	2585.29	.00	21.09	.00	91.48	380.00
*	3830.000	1494.00	2585.77	.48	21.37	.00	98.93	380.00
*	3830.000	1714.00	2585.98	.21	21.47	.00	102.18	380.00
*	3830.000	2099.00	2586.30	.32	21.59	.00	107.08	380.00
*	3930.000	1029.00	2612.78	.00	27.48	.00	101.42	530.00
*	3930.000	1494.00	2613.38	.60	27.61	.00	169.11	530.00
*	3930.000	1714.00	2613.52	.14	27.54	.00	175.39	530.00
*	3930.000	2099.00	2613.73	.21	27.43	.00	181.56	530.00
*	3990.000	1029.00	2628.28	.00	15.50	.00	36.23	320.00
*	3990.000	1494.00	2629.20	.92	15.82	.00	39.40	320.00
*	3990.000	1714.00	2629.62	.41	16.09	.00	40.82	320.00
*	3990.000	2099.00	2630.23	.61	16.49	.00	42.93	320.00
*	4070.000	1029.00	2656.67	.00	28.39	.00	21.82	420.00
*	4070.000	1494.00	2657.98	1.31	28.78	.00	25.40	420.00
*	4070.000	1714.00	2658.51	.52	28.89	.00	27.10	420.00
*	4070.000	2099.00	2659.26	.75	29.03	.00	29.76	420.00
*	4190.000	1029.00	2700.29	.00	43.62	.00	26.28	630.00
*	4190.000	1494.00	2701.44	1.15	43.46	.00	28.85	630.00
*	4190.000	1714.00	2701.93	.49	43.42	.00	29.94	630.00
*	4190.000	2099.00	2702.67	.74	43.41	.00	32.64	630.00
*	4280.000	1029.00	2731.89	.00	31.60	.00	42.18	480.00
*	4280.000	1494.00	2732.75	.86	31.31	.00	46.64	480.00
*	4280.000	1714.00	2733.11	.36	31.18	.00	48.53	480.00
*	4280.000	2099.00	2733.70	.58	31.02	.00	51.56	480.00
*	4380.000	1029.00	2759.64	.00	27.75	.00	36.20	530.00
*	4380.000	1494.00	2760.63	.99	27.88	.00	44.71	530.00
*	4380.000	1714.00	2761.07	.44	27.96	.00	48.43	530.00
*	4380.000	2099.00	2761.70	.63	28.00	.00	53.69	530.00
*	4420.000	1029.00	2774.38	.00	14.74	.00	30.22	210.00
*	4420.000	1494.00	2775.42	1.03	14.78	.00	33.98	210.00
*	4420.000	1714.00	2775.84	.43	14.78	.00	35.54	210.00
*	4420.000	2099.00	2776.55	.71	14.85	.00	38.65	210.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4460.000	1029.00	2787.59	.00	13.21	.00	30.11	210.00
*	4460.000	1494.00	2788.67	1.07	13.25	.00	33.11	210.00
*	4460.000	1714.00	2789.15	.48	13.31	.00	34.47	210.00
*	4460.000	2099.00	2789.89	.74	13.33	.00	36.53	210.00
*	4610.000	1029.00	2838.03	.00	50.43	.00	48.00	790.00
*	4610.000	1494.00	2839.00	.98	50.34	.00	58.02	790.00
*	4610.000	1714.00	2839.34	.33	50.18	.00	61.70	790.00
*	4610.000	2099.00	2839.85	.51	49.96	.00	67.32	790.00
*	4810.000	1029.00	2893.65	.00	55.62	.00	50.67	1060.00
*	4810.000	1494.00	2894.78	1.13	55.78	.00	78.12	1060.00
*	4810.000	1714.00	2895.08	.30	55.74	.00	79.26	1060.00
*	4810.000	2099.00	2895.52	.45	55.68	.00	80.98	1060.00
*	4990.000	1029.00	2957.44	.00	63.79	.00	23.77	950.00
*	4990.000	1494.00	2958.83	1.39	64.05	.00	27.32	950.00
*	4990.000	1714.00	2959.42	.59	64.34	.00	28.82	950.00
*	4990.000	2099.00	2960.30	.88	64.77	.00	31.06	950.00
*	5170.000	1029.00	3048.70	.00	91.26	.00	24.64	950.00
*	5170.000	1494.00	3050.02	1.33	91.19	.00	29.36	950.00
*	5170.000	1714.00	3050.76	.74	91.34	.00	32.28	950.00
*	5170.000	2099.00	3051.58	.82	91.29	.00	35.57	950.00
*	5350.000	1029.00	3164.99	.00	116.29	.00	93.05	950.00
*	5350.000	1494.00	3165.52	.53	115.50	.00	117.59	950.00
*	5350.000	1714.00	3165.69	.17	114.93	.00	121.69	950.00
*	5350.000	2099.00	3165.94	.25	114.36	.00	125.41	950.00
*	5510.000	1029.00	3273.92	.00	108.93	.00	40.46	840.00
*	5510.000	1494.00	3274.81	.89	109.29	.00	44.03	840.00
*	5510.000	1714.00	3275.19	.38	109.50	.00	45.57	840.00
*	5510.000	2099.00	3275.78	.59	109.84	.00	47.93	840.00
*	5610.000	1029.00	3329.21	.00	55.28	.00	61.09	530.00
*	5610.000	1494.00	3329.84	.63	55.03	.00	66.42	530.00
*	5610.000	1714.00	3330.11	.27	54.92	.00	68.73	530.00
*	5610.000	2099.00	3330.59	.48	54.81	.00	72.81	530.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   2070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2170.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2170.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2170.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=   2260.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2260.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2310.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2310.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2310.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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ION SECNO=   2400.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2400.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   2400.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2470.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2470.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2580.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2580.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2580.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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 ION SECNO=   2650.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2650.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2650.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2650.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2720.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   2720.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2720.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2720.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=   2780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
 ION SECNO=   2780.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
 TION SECNO=   2780.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  5610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=  5610.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  5610.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  5610.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
```

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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  PDATED:  SEPTEMBER 1989                            *
*  RUN DATE     9/27/90    TIME    11: 4:19           *
*******************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

OCEAST MCX
9-27-90

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X       X     X           X     X
X     X  X       X                       X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X       X                 X
X     X  X       X     X           X
X     X  XXXXXXX   XXXXX            XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 9/27/90 11: 4:19

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL    ENCROACHMENT CONDITIONS
T3      OCOTILLO WASH           (OCEAST.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2243.70

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51         7
    28         4         5         7         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2      4047      4047
NC     .05       .05       .04        .1        .3
ET                         4.1    9874.2   10067.5
       ***** STREAM REACH DISTANCES REVISED 9-27-90
       ******REVISED STREAMFLOWS FROM CVCRK43R.DAT****************
         THIS MODEL ASSUMES ALL FLOW OCCURS IN THE EAST BRAID OF OCOTILLO WASH.
         COMMON SECTION IS SEC. 2030 FROM OCOTILLO WASH (HTA)
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL.
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
X1    2030        18    9874.2   10067.5                                                  -2
GR  2252.8    9793.7    2252.5    9830.5    2246.7    9853.0    2241.3    9874.2    2242.9    9900.3
GR  2244.0    9926.2    2242.1    9957.7    2242.5    9966.4    2241.6    9999.3    2242.0   10000.0
GR  2241.0   10018.4    2242.1   10044.1    2242.3   10067.5    2245.7   10093.3    2254.9   10121.7
GR  2256.9   10157.9    2256.5   10178.3    2255.4   10187.7
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NC    .045      .045      .035
ET                        4.1     9943.5    10069.5
X1    2070        19     9943.5   10069.5      210       210       210
GR   2251.0    9688.1   2251.0    9778.4    2251.0    9831.4    2251.0    9874.2    2250.4    9898.2
GR   2250.4    9923.7   2246.5    9943.5    2245.8    9962.9    2246.3   10000.0    2245.5   10021.6
GR   2246.7   10025.5   2249.5   10039.2    2246.6   10053.8    2248.5   10069.5    2256.2   10088.3
GR   2259.0   10113.5   2260.3   10163.3    2262.0   10215.1    2264.4   10249.6

NH       3      .045   9955.2      .035   10070.2      .045   10390.0
ET                        4.1     9986.5   10355.2
X1    2170        23     9986.5   10355.2      520       480       530
GR   2275.4    9886.0   2274.5    9895.8    2258.2    9933.0    2261.4    9938.9    2262.4    9955.2
GR   2262.0    9966.8   2259.7    9979.0    2256.6    9986.5    2256.6   10000.0    2258.5   10031.4
GR   2257.6   10050.1   2258.7   10070.2    2258.6   10141.3    2255.9   10216.3    2255.3   10240.7
GR   2257.9   10257.8   2257.2   10275.7    2259.0   10288.9    2257.7   10332.0    2257.2   10354.4
GR   2257.4   10355.2   2258.7   10370.7    2261.6   10390.0

NH       3      .045   9915.0      .035   10022.5      .045   10410
ET                        4.1     9924.9   10010.6
X1    2260        25     9928.2   10010.6      470       480       480
GR   2286.5    9504.5   2284.0    9547.8    2279.0    9591.4    2272.8    9676.2    2269.4    9723.0
GR   2271.5    9733.2   2271.2    9826.7    2271.6    9915.0    2268.2    9928.2    2268.4    9967.0
GR   2268.3    9971.7   2267.6   10000.0    2266.8   10010.6    2276.7   10022.5    2277.1   10024.6
GR   2278.3   10061.3   2276.9   10093.0    2271.9   10116.9    2276.6   10142.2    2278.8   10173.0
     2278.4   10207.4   2277.8   10217.0    2280.0     10290      2276     10347    2280.0     10410

NH       3      .045   9943.1      .035   10110.1      .045   10790.4
ET                        4.1     9963.4   10110.1
X1    2310        30     9963.4   10110.1      220       220       220
GR   2294.0    9694.6   2286.6    9724.9    2279.8    9775.6    2278.8    9803.3    2279.9    9832.4
GR   2277.9    9885.7   2277.9    9935.4    2276.8    9943.1    2276.0    9963.4    2273.3   10000.0
GR   2273.2   10013.4   2274.8   10036.0    2274.2   10054.9    2273.7   10093.0    2273.6   10110.1
GR   2283.6   10126.1   2283.9   10162.2    2284.2   10194.7    2284.6   10231.8    2286.9   10283.2
GR   2286.3   10309.7   2284.3   10332.6    2286.6   10359.7    2290.0   10499.5    2291.4   10573.2
GR   2289.5   10623.7   2290.3   10668.1    2286.2   10716.7    2289.7   10752.7    2291.2   10790.4

QT       2       2992      2992
NH       3      .045   9962.2      .035   10033.3      .045   10220.2
ET                        4.1     9778.6   10014.9
         QT VALUES ARE FROM CP 35A.
X1    2400        23     9778.6   10014.9      490       470       480
GR   2305.0    9627.1   2303.2    9663.3    2299.0    9695.4    2291.3    9730.7    2289.1    9757.9
GR   2289.1    9759.2   2287.3    9778.6    2289.0    9795.9    2285.4    9817.6    2288.2    9844.7
GR   2290.4    9912.7   2290.8    9962.2    2288.2    9974.2    2287.4    9975.8    2287.4    9996.1
GR   2287.6   10000.0   2287.6   10014.9    2296.1   10033.3    2290.4   10062.9    2291.9   10094.6
GR   2290.2   10138.6   2292.2   10177.0    2292.1   10220.2

NH       3      .045   9904.6      .035   10061.2      .045   10861.4
ET                        4.1     9916.2   10057.1
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	2470	30	9916.2	10057.1	320	320	320			
GR	2305.0	9882.7	2304.7	9904.6	2301.0	9916.2	2298.2	9969.6	2298.2	9974.5
GR	2298.7	10000.0	2299.1	10020.8	2297.7	10036.5	2297.0	10057.1	2304.8	10061.2
GR	2303.6	10075.7	2304.2	10129.9	2304.0	10217.3	2302.6	10266.8	2300.4	10305.8
GR	2301.2	10355.4	2303.9	10373.5	2303.8	10392.7	2306.8	10422.6	2308.8	10465.6
GR	2308.5	10532.2	2309.1	10614.6	2308.6	10669.8	2307.6	10723.7	2305.8	10728.9
GR	2306.5	10741.7	2306.6	10756.9	2307.6	10761.6	2309.4	10813.5	2309.5	10861.4
NH	3	.045	9985.2	.040	10273.5	.045	10715.7			
ET			4.1	9985.2	10152.0					
X1	2580	29	9985.2	10162.9	580	580	580			
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7		
NH	3	.045	9883.1	.040	10196.5	.045	10457.2			
ET			4.1	9903.4	10147.0					
X1	2650	22	9903.4	10196.5	370	370	370			
GR	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
GR	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
GR	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
	2335.2	10436.7	2333.8	10457.2						
NH	3	.045	9982	.040	10038	.045	10353			
ET			4.1	9982.0	10315.0					
X1	2720	10	9982	10315	410	410	410			
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
NC	.045	.055	.035							
ET			4.1	9969.0	10132.0					
X1	2780	36	9960.7	10073.7	280	280	280			
GR	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7
GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								
NH	3	.035	9915.7	.03	10024.3	999	10889.3			
ET			4.1	9946.7	10024.3					
X1	2850	34	9946.7	10024.3	370	370	370			
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
GR	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5
	2368.4	10294.6	2368.6	10370.3	2367.8	10463.0	2367.5	10531.7	2366.9	10583.5
GR	2366.4	10610.9	2367.9	10650.9	2368.9	10685.7	2365.6	10700.8	2365.8	10706.9
GR	2363.7	10715.9	2361.6	10757.6	2360.6	10771.0	2367.5	10784	2366.4	10793.5

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    2365.9   10820.7    2366.3   10829.5    2366.4   10874.6    2365.8   10889.3

NH      4      .035   10025.9      .045   10422.5      .035   10498.3       999   10696.7
ET                        4.1    9700.0   10370.0
X1   2970        35    9700.0   10025.9       635       635       635
GR  2389.5      9632   2388.0      9675    2386.4      9700    2388.0      9728    2389.7    9792.0
GR  2388.0      9850   2386.2      9908    2388.0    9965.6    2385.2    9997.4    2384.9   10000.0
GR  2387.6  10025.9    2390.0  10071.0    2390.5  10093.8    2389.8  10107.6    2391.4   10177.9
GR  2390.4  10234.1    2389.9  10282.8    2385.9  10296.3    2388.2  10321.9    2387.7   10348.8
GR  2386.4  10368.7    2384.9  10383.6    2386.7  10402.2    2385.7  10422.5    2382.5   10431.1
GR  2385.1  10454.9    2384.1  10476.9    2388.7  10498.3    2390.8  10543.9    2389.0   10547.2
GR  2388.4  10574.9    2390.6  10579.3    2392.4  10604.0    2395.5  10622.4    2394.3   10696.7

NH      4       .05    9908.3       .03   10030.6       .05   10049.5       999   10821.0
ET                        4.1    9900.0   10049.5
          RIVER LEFT ET STATION CHANGED TO PROVIDE MORE GRADUAL TRANSITION
X1   3090        36    9908.3   10049.5       690       690       690
GR  2416.3    9714.3   2411.5    9775.9    2412.2    9823.6    2414.6    9874.7    2415.4    9908.3
GR  2413.8    9933.4   2415.0    9954.0    2415.3    9964.3    2410.9    9969.3    2410.9   10000.0
GR  2410.4   10019.7   2415.1   10030.6    2416.1   10049.5    2413.3   10083.3    2413.7   10136.8
GR  2413.1   10161.7   2414.4   10182.7    2413.4   10244.9    2413.3   10293.1    2409.3   10320.4
GR  2410.4   10349.4   2413.8   10372.6    2416.8   10410.9    2417.8   10461.6    2415.1   10490.5
GR  2412.7   10537.5   2410.5   10552.5    2416.0   10582.1    2416.9   10622.3    2416.8   10670.5
GR  2414.5   10692.6   2412.8   10700.9    2414.5   10718.2    2417.4   10754.4    2425.5   10811.7
GR  2424.6     10821

N      .05       .05      .035
ET                        4.1    9966.0   10080.0
X1   3170        13    9962.0   10080.0       410       430       420
GR  2448.0    9905.0   2440.0    9942.0    2432.0    9962.0    2427.0    9985.0    2426.0   10000.0
GR  2428.0   10018.0   2431.0   10080.0    2431.2   10118.0    2433.5   10147.0    2434.0   10215.0
GR  2438.0   10255.0   2442.5   10300.0    2448.0   10410.0

QT      2      1714      1714
NC   .045      .045      .045
ET                        4.1    9829.6   10000.0
          QT VALUES ARE FROM CP G1.
X1   3290        23    9829.6   10000.0       630       630       630
GR  2476.0    9611.0   2470.8    9672.2    2466.6    9712.4    2464.1    9726.3    2461.9    9776.8
GR  2456.8    9829.6   2456.2    9866.9    2458.5    9891.0    2456.7    9914.8    2456.9    9936.1
GR  2457.3    9939.9   2454.3    9986.0    2452.1   10000.0    2460.3   10019.0    2462.7   10036.8
GR  2462.6   10073.4   2463.1   10107.5    2465.3   10171.9    2467.2   10225.2    2465.1   10278.5
GR  2463.5   10300.3   2467.0   10340.2    2468.8   10376.9

ET                        4.1    9815.5   10026.0
X1   3390        23    9815.5   10032.6       530       530       530
GR  2497.2    9774.1   2486.7    9805.0    2479.3    9815.5    2480.6    9830.3    2483.1    9863.8
GR  2481.4    9914.4   2478.9    9947.3    2481.5    9971.1    2476.4    9985.9    2475.6    9998.3
GR  2475.9   10000.0   2475.2   10008.0    2479.7   10016.3    2481.2   10032.6    2488.1   10051.3
GR  2487.7   10076.4   2483.7   10105.9    2489.1   10115.7    2486.1   10125.7    2485.4   10132.2
GR  2487.1   10167.3   2489.1   10213.7    2487.4   10235.0
```

NC	.045	.045	.040							
ET			4.1	9938.0	10015.6					
X1	3490	16	9933.5	10015.6	460	490	530			
GR	2518.7	9876.6	2513.7	9903.1	2508.0	9918.7	2501.6	9933.5	2499.9	9945.9
GR	2502.2	9957.0	2501.3	9959.4	2499.2	9967.0	2496.7	9989.0	2497.0	10000.0
GR	2498.7	10012.5	2500.3	10015.6	2507.1	10041.8	2514.7	10065.3	2516.9	10097.8
GR	2516.8	10108.2								
NC	.045	.045	.035							
ET			4.1	9968.3	10034.5					
X1	3570	14	9968.3	10034.5	410	380	420			
GR	2537.0	9919.5	2526.5	9947.9	2519.2	9968.3	2520.8	9970.9	2515.8	9983.7
GR	2514.9	10000.0	2516.4	10011.0	2519.2	10034.5	2529.8	10064.4	2528.8	10092.1
GR	2530.3	10097.9	2534.0	10130.1	2536.5	10184.7	2535.7	10200.2		
ET			4.1	9955.6	10039.8					
X1	3650	14	9955.6	10039.8	400	440	420			
GR	2559.6	9898.9	2554.0	9913.7	2547.9	9932.1	2540.8	9945.9	2536.1	9955.6
GR	2534.5	9974.9	2534.4	9981.6	2535.1	10000.0	2537.0	10017.3	2537.0	10027.9
GR	2537.6	10039.8	2551.5	10065.6	2559.8	10108.1	2559.9	10120.2		
NC	.05	.05	.05							
ET			4.1	9833.3	10035.6					
X1	3740	13	9833.3	10035.6	480	480	480			
[illegible]	2575.9	9782.5	2565.6	9809.8	2562.7	9833.3	2563.9	9859.3	2563.4	9888.2
[illegible]	2563.8	9910.7	2563.8	9946.7	2563.2	9979.0	2562.1	10000.0	2562.4	10021.1
GR	2562.7	10035.6	2572.0	10056.1	2580.1	10067.1				
ET			4.1	9933.1	10030.0					
X1	3830	15	9933.1	10046.4	360	400	380			
GR	2610.7	9813.9	2610.9	9857.8	2613.5	9898.0	2583.0	9933.1	2582.1	9941.0
GR	2581.4	9949.9	2585.0	9960.0	2582.9	9978.0	2584.7	10000.0	2585.2	10020.6
GR	2587.0	10046.4	2586.7	10087.3	2591.9	10138.3	2598.9	10166.3	2606.7	10179.3
ET			4.1	9908.0	10075.4					
X1	3930	19	9904.7	10075.4	550	510	530			
GR	2639.8	9838.0	2624.9	9868.4	2615.8	9893.8	2613.6	9904.7	2612.6	9933.6
GR	2611.5	9938.5	2611.1	9953.7	2613.1	9973.8	2612.8	10000.0	2613.1	10013.5
GR	2614.0	10019.8	2609.8	10043.1	2611.8	10069.5	2609.5	10075.4	2615.6	10094.9
GR	2629.2	10123.2	2641.5	10147.4	2642.1	10187.3	2641.8	10195.9		
NC	.05	.05	.045							
ET			4.1	9999.8	10026.7					
X1	3990	10	10000.0	10026.7	280	320	320			
GR	2662.4	9938.9	2635.0	9983.7	2622.9	10000.0	2624.8	10013.6	2625.9	10015.0
GR	2627.2	10026.7	2639.1	10051.7	2641.4	10085.4	2645.5	10108.7	2643.3	10112.0
ET			4.1	9988.0	10013.0					
X1	4070	7	9985.9	10013.0	400	380	420			
[illegible]	2677.7	9958.9	2658.7	9985.9	2652.0	10000.0	2648.4	10006.9	2658.3	10013.0
[illegible]	2660.0	10016.3	2671.9	10065.8						

ET			4.1	9988.7	10011.0					
X1	4190	9	9988.7	10013.0	630	630	630			
GR	2726.6	9947.0	2697.9	9988.7	2695.1	9998.3	2695.7	10000.0	2695.3	10007.6
GR	2702.2	10013.0	2707.8	10029.7	2717.2	10097.9	2716.8	10098.4		
ET			4.1	9983.7	10014.0					
X1	4280	10	9983.7	10014.0	470	500	480			
GR	2794.4	9828.8	2761.7	9903.9	2738.3	9955.7	2729.6	9983.7	2729.4	9987.6
GR	2727.5	10000.0	2729.6	10014.0	2736.2	10027.0	2746.2	10042.3	2752.0	10063.8
NC	.06	.06	.055							
ET			4.1	9984.2	10013.8					
X1	4380	12	9984.2	10013.8	530	530	530			
GR	2775.8	9945.3	2773.4	9959.3	2761.0	9980.4	2759.1	9984.2	2755.2	10000.0
GR	2754.1	10007.9	2758.0	10013.8	2759.4	10017.7	2763.4	10044.1	2767.2	10055.5
GR	2778.0	10074.6	2782.3	10079.7						
ET			4.1	9981.7	10009.0					
X1	4420	10	9981.7	10011.0	230	200	210			
GR	2789.4	9937.9	2779.2	9965.6	2773.7	9981.7	2771.1	9985.9	2769.5	9998.3
GR	2770.4	10000.0	2771.1	10007.6	2775.9	10011.0	2785.7	10025.9	2796.3	10045.2
ET			4.1	9988.3	10010.5					
X1	4460	7	9988.3	10010.5	190	210	210			
[illegible]	2815.8	9951.1	2784.8	9988.3	2783.2	10000.0	2783.1	10010.5	2785.5	10011.7
[illegible]	2799.3	10033.8	2807.0	10055.9						
NC	.06	.06	.05							
ET			4.1	9984.7	10012.4					
X1	4610	10	9985.7	10012.4	790	790	790			
GR	2841.2	9933.9	2838.7	9959.8	2835.9	9985.7	2835.1	9987.8	2833.4	9998.7
GR	2833.4	10000.0	2835.6	10012.4	2844.1	10018.1	2858.6	10041.7	2864.0	10049.8
ET			4.1	9947.6	9980.1					
X1	4810	11	9952.3	9972.6	1090	1030	1060			
GR	2911.6	9867.8	2899.3	9925.7	2888.8	9952.3	2888.7	9959.7	2892.0	9972.6
GR	2894.7	9986.8	2894.1	10000.0	2892.8	10012.9	2894.5	10014.9	2918.7	10046.7
GR	2929.0	10063.6								
ET			4.1	9998.0	10015.7					
X1	4990	8	10000.0	10011.4	930	970	950			
GR	2981.0	9938.9	2972.8	9968.5	2965.2	9986.5	2952.7	10000.0	2950.3	10008.0
GR	2952.5	10011.4	2965.7	10030.8	2975.2	10047.0				
ET			4.1	9991.5	10008.8					
X1	5170	8	9994.5	10008.8	970	930	950			
GR	3078.9	9933.4	3050.7	9983.0	3043.9	9994.5	3042.7	10000.0	3044.9	10008.8
GR	3049.0	10011.2	3058.1	10031.7	3062.2	10053.3				

NC	.06	.06	.055							
ET			4.1	9907.8	10016.6					
X1	5350	12	9907.8	10016.6	960	940	950			
GR	3185.6	9858.0	3171.0	9887.0	3165.4	9907.8	3164.0	9952.0	3165.8	9977.2
GR	3162.1	9991.5	3161.7	10000.0	3161.3	10013.5	3161.4	10016.6	3167.1	10034.9
GR	3184.5	10061.5	3183.8	10062.0						
NC	.06	.06	.05							
ET			4.1	9997.0	10024.5					
X1	5510	8	9997.0	10023.2	840	840	840			
GR	3277.8	9984.0	3270.6	9997.0	3271.2	10000.0	3270.1	10018.7	3270.2	10023.2
GR	3281.7	10048.7	3288.9	10103.6	3289.5	10105.9				
ET			4.1	9968.0	10008.0					
X1	5610	7	9981.9	10000.0	520	540	530			
GR	3335.7	9939.2	3326.4	9967.9	3327.2	9981.9	3324.8	9991.1	3326.7	10000.0
GR	3327.9	10013.3	3332.2	10036.4						

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      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2    100-YR FLOOD FREQUENCY MODEL   ENCROACHMENT CONDITIONS
T3    OCOTILLO WASH          (OCEAST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                              2244.70

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15        0        -1       0        0        0        0        0        0        15

FLOW DISTRIBUTION FOR SECNO=   2030.00        CWSEL=   2244.70

STA=    9874.   10068.
  PER Q=    100.0
   AREA=    847.2
    VEL=      4.8
  DEPTH=      4.4

FLOW DISTRIBUTION FOR SECNO=   2070.00        CWSEL=   2249.84

STA=    9944.   10070.
  PER Q=    100.0
   AREA=    398.2
    VEL=     10.2
  DEPTH=      3.2

FLOW DISTRIBUTION FOR SECNO=   2170.00        CWSEL=   2259.29

STA=    9987.   10355.
  PER Q=    100.0
   AREA=    602.2
    VEL=      6.7
  DEPTH=      1.6

FLOW DISTRIBUTION FOR SECNO=   2260.00        CWSEL=   2272.17

STA=    9925.    9928.   10011.
  PER Q=      2.0     98.0
   AREA=     11.7    340.0
    VEL=      7.0     11.7
  DEPTH=      3.5      4.1

FLOW DISTRIBUTION FOR SECNO=   2310.00        CWSEL=   2276.96
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


STA=    9963.   10110.
  PER Q=    100.0
   AREA=    418.3
    VEL=      9.7
  DEPTH=      2.9

FLOW DISTRIBUTION FOR SECNO=   2400.00          CWSEL=   2290.11

STA=    9779.    9965.   10015.
  PER Q=     59.9     40.1
   AREA=    243.4    114.8
    VEL=      7.4     10.4
  DEPTH=      1.9      2.3

FLOW DISTRIBUTION FOR SECNO=   2470.00          CWSEL=   2301.16

STA=    9916.   10057.
  PER Q=    100.0
   AREA=    335.7
    VEL=      8.9
  DEPTH=      2.4

FLOW DISTRIBUTION FOR SECNO=   2580.00          CWSEL=   2318.01

STA=    9985.   10152.
  PER Q=    100.0
   AREA=    353.7
    VEL=      8.5
  DEPTH=      2.1

FLOW DISTRIBUTION FOR SECNO=   2650.00          CWSEL=   2330.41

STA=    9903.   10147.
  PER Q=    100.0
   AREA=    395.7
    VEL=      7.6
  DEPTH=      1.6
```

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

FLOW DISTRIBUTION FOR SECNO= 2720.00 CWSEL= 2344.49

STA=	9982.	10315.
PER Q=	100.0	
AREA=	445.6	
VEL=	6.7	
DEPTH=	1.3	

FLOW DISTRIBUTION FOR SECNO= 2780.00 CWSEL= 2355.41

STA=	9969.	10074.	10114.	10132.
PER Q=	69.4	17.2	13.4	
AREA=	221.1	85.7	56.8	
VEL=	9.4	6.0	7.1	
DEPTH=	2.1	2.1	3.2	

FLOW DISTRIBUTION FOR SECNO= 2850.00 CWSEL= 2366.34

STA=	9947.	10024.
PER Q=	100.0	
AREA=	276.4	
VEL=	10.8	
DEPTH=	3.6	

FLOW DISTRIBUTION FOR SECNO= 2970.00 CWSEL= 2388.50

STA=	9700.	10026.	10043.	10296.	10322.	10349.	10369.	10370.
PER Q=	82.4	.7	2.0	7.3	1.5	5.7	.4	
AREA=	335.1	7.6	11.4	37.1	14.8	28.9	2.8	
VEL=	7.4	2.7	5.3	5.9	3.1	5.9	4.0	
DEPTH=	1.4	.5	.0	1.5	.6	1.5	2.2	

FLOW DISTRIBUTION FOR SECNO= 3090.00 CWSEL= 2415.48

STA=	9900.	9908.	10049.
PER Q=	.0	100.0	
AREA=	1.5	326.7	
VEL=	1.0	9.2	
DEPTH=	.2	2.5	

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

FLOW DISTRIBUTION FOR SECNO= 3170.00 CWSEL= 2431.37

STA= 9966. 10080.
PER Q= 100.0
AREA= 311.8
VEL= 9.6
DEPTH= 2.7

FLOW DISTRIBUTION FOR SECNO= 3290.00 CWSEL= 2457.65

STA= 9830. 10000.
PER Q= 100.0
AREA= 227.6
VEL= 7.5
DEPTH= 1.5

FLOW DISTRIBUTION FOR SECNO= 3390.00 CWSEL= 2480.66

STA= 9816. 10033.
PER Q= 100.0
AREA= 209.5
VEL= 8.2
DEPTH= 2.0

FLOW DISTRIBUTION FOR SECNO= 3490.00 CWSEL= 2501.20

STA= 9938. 10016.
PER Q= 100.0
AREA= 184.1
VEL= 9.3
DEPTH= 2.6

FLOW DISTRIBUTION FOR SECNO= 3570.00 CWSEL= 2519.64

STA= 9968. 10035.
PER Q= 100.0
AREA= 175.9
VEL= 9.7
DEPTH= 2.9

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

FLOW DISTRIBUTION FOR SECNO= 3650.00 CWSEL= 2538.08

STA= 9956. 10040.
PER Q= 100.0
AREA= 195.5
VEL= 8.8
DEPTH= 2.3

FLOW DISTRIBUTION FOR SECNO= 3740.00 CWSEL= 2564.56

STA= 9833. 10036.
PER Q= 100.0
AREA= 261.1
VEL= 6.6
DEPTH= 1.3

FLOW DISTRIBUTION FOR SECNO= 3830.00 CWSEL= 2585.99

STA= 9933. 10046.
PER Q= 100.0
AREA= 203.4
VEL= 8.4
DEPTH= 2.1

FLOW DISTRIBUTION FOR SECNO= 3930.00 CWSEL= 2613.64

STA= 9908. 10075.
PER Q= 100.0
AREA= 251.7
VEL= 6.8
DEPTH= 1.5

FLOW DISTRIBUTION FOR SECNO= 3990.00 CWSEL= 2630.10

STA= 10000. 10000. 10027.
PER Q= .1 99.9
AREA= 1.4 133.3
VEL= 1.4 12.8
DEPTH= 7.1 5.0

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


FLOW DISTRIBUTION FOR SECNO=   4070.00          CWSEL=   2658.46

STA=    9988.   10013.
  PER Q=    100.0
   AREA=    131.4
    VEL=     13.0
  DEPTH=      5.3

FLOW DISTRIBUTION FOR SECNO=   4190.00          CWSEL=   2701.89

STA=    9989.   10013.
  PER Q=    100.0
   AREA=    126.3
    VEL=     13.6
  DEPTH=      5.7

FLOW DISTRIBUTION FOR SECNO=   4280.00          CWSEL=   2733.23

STA=    9984.   10014.
  PER Q=    100.0
   AREA=    139.5
    VEL=     12.3
  DEPTH=      4.6

FLOW DISTRIBUTION FOR SECNO=   4380.00          CWSEL=   2760.93

STA=    9984.   10014.
  PER Q=    100.0
   AREA=    138.2
    VEL=     12.4
  DEPTH=      4.7

FLOW DISTRIBUTION FOR SECNO=   4420.00          CWSEL=   2775.75

STA=    9982.   10011.
  PER Q=    100.0
   AREA=    134.7
    VEL=     12.7
  DEPTH=      4.9
```

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

FLOW DISTRIBUTION FOR SECNO= 4460.00 CWSEL= 2789.26

STA=	9988.	10011.
PER Q=	100.0	
AREA=	125.7	
VEL=	13.6	
DEPTH=	5.7	

FLOW DISTRIBUTION FOR SECNO= 4610.00 CWSEL= 2839.42

STA=	9985.	9986.	10012.
PER Q=	.7	99.3	
AREA=	3.5	133.4	
VEL=	3.4	12.8	
DEPTH=	3.5	5.0	

FLOW DISTRIBUTION FOR SECNO= 4810.00 CWSEL= 2895.04

STA=	9948.	9952.	9973.	9980.
PER Q=	10.4	83.8	5.8	
AREA=	24.9	107.0	17.4	
VEL=	7.2	13.4	5.7	
DEPTH=	5.3	5.3	2.3	

FLOW DISTRIBUTION FOR SECNO= 4990.00 CWSEL= 2959.37

STA=	9998.	10000.	10011.	10016.
PER Q=	3.3	87.4	9.3	
AREA=	11.5	90.0	23.2	
VEL=	4.9	16.6	6.9	
DEPTH=	5.7	7.9	5.4	

FLOW DISTRIBUTION FOR SECNO= 5170.00 CWSEL= 3050.70

STA=	9992.	9995.	10009.
PER Q=	7.6	92.4	
AREA=	17.7	101.4	
VEL=	7.3	15.6	
DEPTH=	5.9	7.1	

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

FLOW DISTRIBUTION FOR SECNO= 5350.00 CWSEL= 3165.92

STA=	9908.	10017.
PER Q=	100.0	
AREA=	215.4	
VEL=	8.0	
DEPTH=	2.0	

FLOW DISTRIBUTION FOR SECNO= 5510.00 CWSEL= 3275.58

STA=	9997.	10023.	10024.
PER Q=	98.3	1.7	
AREA=	130.6	6.6	
VEL=	12.9	4.3	
DEPTH=	5.0	5.1	

FLOW DISTRIBUTION FOR SECNO= 5610.00 CWSEL= 3330.46

STA=	9968.	9982.	10000.	10008.
Q=	24.2	64.1	11.8	
REA=	50.9	83.0	27.2	
VEL=	8.1	13.2	7.4	
DEPTH=	3.7	4.6	3.4	

THIS RUN EXECUTED 9/27/90 11: 5:29

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	2030.000	4047.00	5.79	4.70	2239.00	.00	2243.70	584.07	236.37	9856.93	9874.20	10067.50	10093.30
	2030.000	4047.00	4.78	5.70	2239.00	.00	2244.70	814.82	193.30	9874.20	9874.20	10067.50	10067.50
	2070.000	4047.00	9.94	4.30	2245.50	210.00	2249.80	366.78	145.91	9926.76	9943.50	10069.50	10072.67
*	2070.000	4047.00	10.16	4.34	2245.50	210.00	2249.84	353.76	126.00	9943.50	9943.50	10069.50	10069.50
*	2170.000	4047.00	6.80	3.91	2255.30	530.00	2259.21	280.32	398.06	9930.70	9986.50	10355.20	10374.09
	2170.000	4047.00	6.72	3.99	2255.30	530.00	2259.29	287.04	368.70	9986.50	9986.50	10355.20	10355.20
*	2260.000	4047.00	8.99	5.44	2266.80	480.00	2272.24	497.37	336.77	9683.86	9928.20	10010.60	10118.75
*	2260.000	4047.00	11.66	5.37	2266.80	480.00	2272.17	363.23	85.70	9924.90	9928.20	10010.60	10010.60
*	2310.000	4047.00	9.30	3.81	2273.20	220.00	2277.01	376.08	173.93	9941.63	9963.40	10110.10	10115.56
*	2310.000	4047.00	9.67	3.76	2273.20	220.00	2276.96	350.06	146.70	9963.40	9963.40	10110.10	10110.10
*	2400.000	2992.00	8.12	4.56	2285.40	480.00	2289.96	209.45	205.91	9747.23	9778.60	10014.90	10020.01
*	2400.000	2992.00	8.35	4.71	2285.40	480.00	2290.11	205.20	174.73	9778.60	9778.60	10014.90	10014.90
*	2470.000	2992.00	8.35	4.25	2297.00	320.00	2301.25	277.94	208.94	9915.42	9916.20	10057.10	10355.74
*	2470.000	2992.00	8.91	4.16	2297.00	320.00	2301.16	248.96	140.90	9916.20	9916.20	10057.10	10057.10
*	2580.000	2992.00	7.93	4.29	2313.70	580.00	2317.99	226.57	217.59	9936.02	9985.20	10162.90	10153.78
*	2580.000	2992.00	8.46	4.31	2313.70	580.00	2318.01	213.92	166.80	9985.20	9985.20	10162.90	10152.00
*	2650.000	2992.00	7.36	4.38	2326.00	370.00	2330.38	203.88	253.20	9895.67	9903.40	10196.50	10148.87
*	2650.000	2992.00	7.56	4.41	2326.00	370.00	2330.41	200.02	243.60	9903.40	9903.40	10196.50	10147.00
*	2720.000	2992.00	6.65	2.70	2341.80	410.00	2344.50	186.74	348.46	9981.10	9982.00	10315.00	10329.56
*	2720.000	2992.00	6.71	2.69	2341.80	410.00	2344.49	181.54	333.00	9982.00	9982.00	10315.00	10315.00
*	2780.000	2992.00	7.92	3.82	2350.80	280.00	2354.62	191.41	246.59	9967.09	9960.70	10073.70	10264.90
*	2780.000	2992.00	9.38	4.60	2350.80	280.00	2355.41	220.84	163.00	9969.00	9960.70	10073.70	10132.00

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	2850.000	2992.00	10.05	5.58	2360.40	370.00	2365.98	320.20	351.15	9913.54	9946.70	10024.30	10889.30
*	2850.000	2992.00	10.82	5.94	2360.40	370.00	2366.34	312.04	77.24	9946.70	9946.70	10024.30	10023.94
*	2970.000	2992.00	3.74	5.14	2382.50	635.00	2387.64	320.38	358.76	9680.69	9700.00	10025.90	10493.35
*	2970.000	2992.00	7.35	6.00	2382.50	635.00	2388.50	214.36	339.24	9700.00	9700.00	10025.90	10370.00
*	3090.000	2992.00	8.98	5.13	2409.30	690.00	2414.43	302.68	623.05	9738.27	9908.30	10049.50	10717.51
*	3090.000	2992.00	9.15	6.18	2409.30	690.00	2415.48	284.08	137.80	9900.00	9908.30	10049.50	10037.80
*	3170.000	2992.00	9.10	5.50	2426.00	420.00	2431.50	277.52	157.40	9964.32	9962.00	10080.00	10121.72
*	3170.000	2992.00	9.60	5.37	2426.00	420.00	2431.37	257.02	114.00	9966.00	9962.00	10080.00	10080.00
*	3290.000	1714.00	6.44	5.46	2452.10	630.00	2457.56	112.40	168.82	9821.68	9829.60	10000.00	10012.66
*	3290.000	1714.00	7.53	5.55	2452.10	630.00	2457.65	96.23	150.24	9829.60	9829.60	10000.00	10000.00
*	3390.000	1714.00	7.95	5.50	2475.20	530.00	2480.70	109.62	112.27	9813.51	9815.50	10032.60	10027.22
*	3390.000	1714.00	8.18	5.46	2475.20	530.00	2480.66	105.84	107.15	9815.50	9815.50	10032.60	10026.00
*	3490.000	1714.00	9.12	4.55	2496.70	530.00	2501.25	130.26	75.99	9936.07	9933.50	10015.60	10019.25
*	3490.000	1714.00	9.31	4.50	2496.70	530.00	2501.20	127.58	70.05	9938.00	9933.50	10015.60	10015.60
*	3570.000	1714.00	9.70	4.75	2514.90	420.00	2519.65	149.98	63.91	9967.04	9968.30	10034.50	10035.77
*	3570.000	1714.00	9.74	4.74	2514.90	420.00	2519.64	147.53	61.33	9968.30	9968.30	10034.50	10034.50
*	3650.000	1714.00	8.70	3.68	2534.40	420.00	2538.08	146.29	89.18	9951.51	9955.60	10039.80	10040.69
*	3650.000	1714.00	8.77	3.69	2534.40	420.00	2538.08	142.56	84.20	9955.60	9955.60	10039.80	10039.80
*	3740.000	1714.00	6.47	2.42	2562.10	480.00	2564.52	90.93	221.01	9818.59	9833.30	10035.60	10039.60
*	3740.000	1714.00	6.56	2.46	2562.10	480.00	2564.56	90.86	202.30	9833.30	9833.30	10035.60	10035.60
*	3830.000	1714.00	8.29	4.58	2581.40	380.00	2585.98	98.89	102.18	9929.67	9933.10	10046.40	10031.85
*	3830.000	1714.00	8.43	4.59	2581.40	380.00	2585.99	96.41	96.90	9933.10	9933.10	10046.40	10030.00
*	3930.000	1714.00	6.48	4.02	2609.50	530.00	2613.52	99.35	175.39	9906.90	9904.70	10075.40	10088.26
*	3930.000	1714.00	6.81	4.14	2609.50	530.00	2613.64	97.84	162.90	9908.00	9904.70	10075.40	10075.40
*	3990.000	1714.00	12.06	6.72	2622.90	320.00	2629.62	126.19	40.82	9990.95	10000.00	10026.70	10031.78
*	3990.000	1714.00	12.84	7.20	2622.90	320.00	2630.10	118.61	26.90	9999.80	10000.00	10026.70	10026.70
*	4070.000	1714.00	12.85	10.11	2648.40	420.00	2658.51	108.31	27.10	9986.30	9985.90	10013.00	10013.40
*	4070.000	1714.00	13.04	10.06	2648.40	420.00	2658.46	107.74	25.00	9988.00	9985.90	10013.00	10013.00
*	4190.000	1714.00	12.73	6.83	2695.10	630.00	2701.93	123.76	29.94	9982.85	9988.70	10013.00	10012.79
*	4190.000	1714.00	13.57	6.79	2695.10	630.00	2701.89	106.04	22.30	9988.70	9988.70	10013.00	10011.00
*	4280.000	1714.00	11.38	5.61	2727.50	480.00	2733.11	134.29	48.53	9972.39	9983.70	10014.00	10020.92
*	4280.000	1714.00	12.29	5.73	2727.50	480.00	2733.23	109.81	30.30	9983.70	9983.70	10014.00	10014.00
*	4380.000	1714.00	11.32	6.97	2754.10	530.00	2761.07	112.20	48.43	9980.28	9984.20	10013.80	10028.71
*	4380.000	1714.00	12.41	6.83	2754.10	530.00	2760.93	91.36	29.60	9984.20	9984.20	10013.80	10013.80

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	4420.000	1714.00	12.04	6.34	2769.50	210.00	2775.84	101.12	35.54	9975.42	9981.70	10011.00	10010.96
*	4420.000	1714.00	12.72	6.25	2769.50	210.00	2775.75	90.90	27.30	9981.70	9981.70	10011.00	10009.00
*	4460.000	1714.00	12.69	6.05	2783.10	210.00	2789.15	114.04	34.47	9983.08	9988.30	10010.50	10017.55
*	4460.000	1714.00	13.64	6.16	2783.10	210.00	2789.26	82.95	22.20	9988.30	9988.30	10010.50	10010.50
*	4610.000	1714.00	10.88	5.94	2833.40	790.00	2839.34	133.71	61.70	9953.21	9985.70	10012.40	10014.91
*	4610.000	1714.00	12.76	6.02	2833.40	790.00	2839.42	105.66	27.70	9984.70	9985.70	10012.40	10012.40
*	4810.000	1714.00	10.95	6.38	2888.70	1060.00	2895.08	139.66	79.26	9936.40	9952.30	9972.60	10015.66
*	4810.000	1714.00	13.42	6.34	2888.70	1060.00	2895.04	113.36	32.50	9947.60	9952.30	9972.60	9980.10
*	4990.000	1714.00	14.76	9.12	2950.30	950.00	2959.42	129.94	28.82	9992.75	10000.00	10011.40	10021.57
*	4990.000	1714.00	16.64	9.07	2950.30	950.00	2959.37	114.79	17.70	9998.00	10000.00	10011.40	10015.70
*	5170.000	1714.00	13.70	8.06	3042.70	950.00	3050.76	135.49	32.28	9982.89	9994.50	10008.80	10015.17
*	5170.000	1714.00	15.63	8.00	3042.70	950.00	3050.70	94.61	17.30	9991.50	9994.50	10008.80	10008.80
*	5350.000	1714.00	7.77	4.39	3161.30	950.00	3165.69	87.51	121.69	9906.72	9907.80	10016.60	10030.37
*	5350.000	1714.00	7.96	4.62	3161.30	950.00	3165.92	88.75	108.80	9907.80	9907.80	10016.60	10016.60
*	5510.000	1714.00	11.89	5.09	3270.10	840.00	3275.19	118.29	45.57	9988.70	9997.00	10023.20	10034.28
*	5510.000	1714.00	12.91	5.48	3270.10	840.00	3275.58	102.37	27.50	9997.00	9997.00	10023.20	10024.50
*	5610.000	1714.00	11.53	5.31	3324.80	530.00	3330.11	113.52	68.73	9956.45	9981.90	10000.00	10025.18
*	5610.000	1714.00	13.23	5.66	3324.80	530.00	3330.46	104.40	40.00	9968.00	9981.90	10000.00	10008.00

ILLO WASH

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
	2030.000	4047.00	2243.70	.00	.00	.00	.00	236.37	48.01	.00	2244.20	.00
	2030.000	4047.00	2244.70	1.00	.00	.00	10067.50	193.30	24.67	.00	2245.05	.86
*	2070.000	4047.00	2249.80	.00	6.10	2.79	.00	145.91	121.75	2.79	2251.29	.00
*	2070.000	4047.00	2249.84	.05	5.14	3.00	10069.50	126.00	130.88	3.00	2251.45	.15
*	2170.000	4047.00	2259.21	.00	9.41	9.00	.00	398.06	208.43	9.00	2259.92	.00
	2170.000	4047.00	2259.29	.08	9.45	9.09	10355.20	368.70	198.79	9.09	2259.99	.08
*	2260.000	4047.00	2272.24	.00	13.03	15.74	.00	336.77	66.21	15.74	2273.25	.00
*	2260.000	4047.00	2272.17	-.08	12.88	14.34	10010.60	85.70	124.14	14.34	2274.25	1.00
*	2310.000	4047.00	2277.01	.00	4.77	18.45	.00	173.93	115.80	18.45	2278.33	.00
*	2310.000	4047.00	2276.96	-.05	4.79	16.29	10110.10	146.70	133.66	16.29	2278.41	.08
*	2400.000	2992.00	2289.96	.00	12.95	23.01	.00	205.91	204.07	23.01	2290.95	.00
*	2400.000	2992.00	2290.11	.15	13.16	20.57	10014.90	174.73	212.61	20.57	2291.20	.25
	2470.000	2992.00	2301.25	.00	11.29	25.81	.00	208.94	115.88	25.81	2302.31	.00
	2470.000	2992.00	2301.16	-.09	11.05	23.11	10057.10	140.90	144.43	23.11	2302.39	.09
*	2580.000	2992.00	2317.99	.00	16.74	31.00	.00	217.59	174.39	31.00	2318.92	.00
*	2580.000	2992.00	2318.01	.02	16.85	27.70	10152.00	166.80	195.62	27.70	2319.12	.20
*	2650.000	2992.00	2330.38	.00	12.39	34.41	.00	253.20	215.36	34.41	2331.23	.00
*	2650.000	2992.00	2330.41	.04	12.40	30.89	10147.00	243.60	223.75	30.89	2331.30	.07
*	2720.000	2992.00	2344.50	.00	14.12	38.44	.00	348.46	256.70	38.44	2345.18	.00
*	2720.000	2992.00	2344.49	-.01	14.07	34.84	10315.00	333.00	271.62	34.84	2345.19	.01
*	2780.000	2992.00	2354.62	.00	10.12	41.18	.00	246.59	244.35	41.18	2355.50	.00
*	2780.000	2992.00	2355.41	.78	10.92	37.45	10132.00	163.00	183.55	37.45	2356.55	1.05
*	2850.000	2992.00	2365.98	.00	11.36	45.89	.00	351.15	87.31	45.89	2367.44	.00
*	2850.000	2992.00	2366.34	.36	10.94	40.16	10024.30	77.24	91.94	40.16	2368.16	.73
*	2970.000	2992.00	2387.64	.00	21.65	54.80	.00	358.76	87.22	54.80	2388.27	.00
*	2970.000	2992.00	2388.50	.86	22.16	45.37	10370.00	339.24	194.82	45.37	2389.26	1.00
*	3090.000	2992.00	2414.43	.00	26.80	67.07	.00	623.05	97.72	67.07	2415.36	.00
*	3090.000	2992.00	2415.48	1.05	26.98	51.44	10049.50	137.80	110.93	51.44	2416.78	1.43
*	3170.000	2992.00	2431.50	.00	17.06	73.77	.00	157.40	116.24	73.77	2432.77	.00
	3170.000	2992.00	2431.37	-.12	15.89	54.52	10080.00	114.00	135.51	54.52	2432.80	.03
*	3290.000	1714.00	2457.56	.00	26.07	78.06	.00	168.82	232.52	78.06	2458.34	.00
*	3290.000	1714.00	2457.65	.08	26.28	58.42	10000.00	150.24	317.25	58.42	2458.53	.19

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
*	3390.000	1714.00	2480.70	.00	23.14	80.92	.00	112.27	244.46	80.92	2481.68	.00
*	3390.000	1714.00	2480.66	-.05	23.01	61.08	10026.00	107.15	262.28	61.08	2481.69	.01
*	3490.000	1714.00	2501.25	.00	20.54	83.38	.00	75.99	173.14	83.38	2502.54	.00
*	3490.000	1714.00	2501.20	-.04	20.55	63.48	10015.60	70.05	180.50	63.48	2502.55	.01
*	3570.000	1714.00	2519.65	.00	18.40	85.15	.00	63.91	130.60	85.15	2521.11	.00
*	3570.000	1714.00	2519.64	-.01	18.43	65.21	10034.50	61.33	134.97	65.21	2521.11	.00
*	3650.000	1714.00	2538.08	.00	18.43	86.96	.00	89.18	137.27	86.96	2539.25	.00
*	3650.000	1714.00	2538.08	.00	18.45	67.00	10039.80	84.20	144.55	67.00	2539.28	.03
*	3740.000	1714.00	2564.52	.00	26.43	89.54	.00	221.01	355.33	89.54	2565.15	.00
*	3740.000	1714.00	2564.56	.05	26.48	69.52	10035.60	202.30	355.88	69.52	2565.23	.08
*	3830.000	1714.00	2585.98	.00	21.47	91.62	.00	102.18	300.40	91.62	2587.04	.00
*	3830.000	1714.00	2585.99	.00	21.42	71.54	10030.00	96.90	316.06	71.54	2587.09	.05
*	3930.000	1714.00	2613.52	.00	27.54	94.45	.00	175.39	297.63	94.45	2614.22	.00
*	3930.000	1714.00	2613.64	.12	27.66	74.31	10075.40	162.90	306.87	74.31	2614.36	.15
*	3990.000	1714.00	2629.62	.00	16.09	95.97	.00	40.82	184.49	95.97	2631.66	.00
*	3990.000	1714.00	2630.10	.49	16.46	75.73	10026.70	26.90	208.82	75.73	2632.66	1.00
*	4070.000	1714.00	2658.51	.00	28.89	97.35	.00	27.10	250.42	97.35	2661.07	.00
*	4070.000	1714.00	2658.46	-.05	28.35	77.01	10013.00	25.00	253.07	77.01	2661.10	.03
*	4190.000	1714.00	2701.93	.00	43.42	99.34	.00	29.94	191.81	99.34	2704.37	.00
*	4190.000	1714.00	2701.89	-.04	43.43	78.88	10011.00	22.30	261.25	78.88	2704.75	.38
*	4280.000	1714.00	2733.11	.00	31.18	101.04	.00	48.53	162.91	101.04	2734.97	.00
*	4280.000	1714.00	2733.23	.12	31.35	80.34	10014.00	30.30	243.63	80.34	2735.58	.61
*	4380.000	1714.00	2761.07	.00	27.96	103.06	.00	48.43	233.38	103.06	2762.96	.00
*	4380.000	1714.00	2760.93	-.14	27.70	82.03	10013.80	29.60	351.99	82.03	2763.32	.36
*	4420.000	1714.00	2775.84	.00	14.78	103.81	.00	35.54	287.29	103.81	2778.06	.00
*	4420.000	1714.00	2775.75	-.09	14.82	82.69	10009.00	27.30	355.56	82.69	2778.27	.20
*	4460.000	1714.00	2789.15	.00	13.31	104.53	.00	34.47	225.89	104.53	2791.47	.00
*	4460.000	1714.00	2789.26	.11	13.51	83.32	10010.50	22.20	426.93	83.32	2792.15	.67
*	4610.000	1714.00	2839.34	.00	50.18	107.63	.00	61.70	164.33	107.63	2840.93	.00
*	4610.000	1714.00	2839.42	.08	50.16	85.70	10012.40	27.70	263.14	85.70	2841.93	1.00
*	4810.000	1714.00	2895.08	.00	55.74	112.58	.00	79.26	150.63	112.58	2896.50	.00
*	4810.000	1714.00	2895.04	-.04	55.62	89.18	9980.10	32.50	228.60	89.18	2897.49	1.00
*	4990.000	1714.00	2959.42	.00	64.34	116.57	.00	28.82	174.01	116.57	2962.19	.00
*	4990.000	1714.00	2959.37	-.05	64.33	92.17	10015.70	17.70	222.94	92.17	2963.20	1.01

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	VOL	STENCR	TOPWID	10*KS	VOL	EG	DIFEG
*	5170.000	1714.00	3050.76	.00	91.34	119.89	.00	32.28	160.03	119.89	3053.25	.00
*	5170.000	1714.00	3050.70	-.06	91.33	94.83	10008.80	17.30	328.17	94.83	3054.27	1.01
*	5350.000	1714.00	3165.69	.00	114.93	123.99	.00	121.69	383.66	123.99	3166.63	.00
*	5350.000	1714.00	3165.92	.23	115.22	98.48	10016.60	108.80	372.97	98.48	3166.90	.27
*	5510.000	1714.00	3275.19	.00	109.50	127.73	.00	45.57	209.96	127.73	3277.12	.00
*	5510.000	1714.00	3275.58	.38	109.66	101.88	10024.50	27.50	280.35	101.88	3278.13	1.00
*	5610.000	1714.00	3330.11	.00	54.92	129.93	.00	68.73	227.97	129.93	3331.55	.00
*	5610.000	1714.00	3330.46	.35	54.89	103.70	10008.00	40.00	269.54	103.70	3332.55	1.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   2070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2170.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2260.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2310.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2310.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2400.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2470.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2470.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2470.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2470.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2650.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2720.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  2970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  2970.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3090.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=  3090.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=  3090.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=  3170.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=  3290.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=  3570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  3570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   3650.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3650.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   3740.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3740.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3740.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3740.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   3830.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   3830.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4070.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4070.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   4190.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4280.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4280.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4380.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4460.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4990.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   4990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   4990.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   4990.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   5170.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   5350.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   5350.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5350.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   5510.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5510.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   5510.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5510.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   5610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   5610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   5610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   5610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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FLOODWAY DATA, OCOTILLO WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
2030.000	193.	847.	4.8	2244.7	2243.7	1.0
2070.000	126.	398.	10.2	2249.8	2249.8	.0
2170.000	369.	602.	6.7	2259.3	2259.2	.1
2260.000	86.	352.	11.5	2272.2	2272.2	.0
2310.000	147.	418.	9.7	2277.0	2277.0	.0
2400.000	236.	358.	8.4	2290.1	2290.0	.1
2470.000	141.	336.	8.9	2301.2	2301.3	-.1
2580.000	167.	354.	8.5	2318.0	2318.0	.0
2650.000	244.	396.	7.6	2330.4	2330.4	.0
2720.000	333.	446.	6.7	2344.5	2344.5	.0
2780.000	163.	364.	8.2	2355.4	2354.6	.8
2850.000	77.	276.	10.8	2366.3	2366.0	.3
2970.000	670.	438.	6.8	2388.5	2387.6	.9
3090.000	138.	328.	9.1	2415.5	2414.4	1.1
3170.000	114.	312.	9.6	2431.4	2431.5	-.1
[illegible].000	170.	228.	7.5	2457.6	2457.6	.0
[illegible].000	210.	210.	8.2	2480.7	2480.7	.0
3490.000	78.	184.	9.3	2501.2	2501.2	.0
3570.000	66.	176.	9.7	2519.6	2519.6	.0
3650.000	84.	196.	8.8	2538.1	2538.1	.0
3740.000	202.	261.	6.6	2564.6	2564.5	.1
3830.000	97.	203.	8.4	2586.0	2586.0	.0
3930.000	167.	252.	6.8	2613.6	2613.5	.1
3990.000	27.	135.	12.7	2630.1	2629.6	.5
4070.000	25.	131.	13.0	2658.5	2658.5	.0
4190.000	22.	126.	13.6	2701.9	2701.9	.0
4280.000	30.	139.	12.3	2733.2	2733.1	.1
4380.000	30.	138.	12.4	2760.9	2761.1	-.2
4420.000	27.	135.	12.7	2775.8	2775.8	.0
4460.000	22.	126.	13.6	2789.3	2789.2	.1
4610.000	28.	137.	12.5	2839.4	2839.3	.1
4810.000	32.	149.	11.5	2895.0	2895.1	-.1
4990.000	18.	125.	13.7	2959.4	2959.4	.0
5170.000	17.	119.	14.4	3050.7	3050.8	-.1
5350.000	109.	215.	8.0	3165.9	3165.7	.2
5510.000	27.	137.	12.5	3275.6	3275.2	.4
5610.000	40.	161.	10.6	3330.5	3330.1	.4

```
*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     9/25/90    TIME    10:11: 6           *
*******************************************************
```

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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

DEPLETED
1 25 90

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X    X            X     X
X     X  X        X                      X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                 X
X     X  X        X    X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 9/25/90 10:11: 6

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



SPLIT FLOW BEING PERFORMED


SF TWO WEIR, SPLIT FLOW MODEL FOR OCOTILLO WASH


TW WEIR BETWEEN STAS 3.09 AND 3.17
WS     6    3090    3170    2070     2.8
WC     0  2416.2     100    2418     180    2420     288    2424     330    2428
WC   422    2432

    EIR BETWEEN STAS 2.72 AND 2.85
     8    2720    2850    2070     2.8
WC     0  2345.5     120    2348     245    2352     305  2353.6     395    2356
WC   550    2360     620    2364     645  2366.5
```

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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCSPLIT.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                2                          .01                                2164.86

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150

QT       4      2274      3445      4047      5109

NC    .045      .045      .035        .1        .3

         ******STREAM REACH DISTANCES REVISED 9-25-90 AS PER OCEAST.DAT*****
         THIS MODEL CONTAINS TWO WEIRS TO ESTIMATE BREAKOUT FLOW FOR THE WEST
         BRAID. ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL (CCTRIB.OUT).
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
X1     1710        24    9989.7   10135.5
GR   2228.2    9735.2    2230.8    9776.1    2231.1    9802.2    2228.2    9814.7    2223.1    9836.4
GR   2212.1    9863.4    2208.6    9889.0    2207.8    9903.8    2209.2    9929.9    2208.2    9954.3
GR   2207.7    9975.9    2201.9    9989.7    2202.2   10000.0    2205.6   10025.2    2204.3   10046.9
GR   2205.2   10066.2    2205.6   10103.3    2205.5   10122.7    2205.1   10135.5    2207.8   10148.8
GR   2212.8   10165.1    2216.2   10210.2    2218.2   10266.6    2219.0   10312.0

X1     1830        31    9988.5   10118.4     640       650       740
GR   2242.2    9721.1    2239.5    9755.1    2236.9    9779.5    2233.9    9792.3    2232.4    9842.8
GR   2231.2    9897.3    2230.8    9946.1    2231.2    9958.3    2221.2    9978.6    2221.3    9986.1
GR   2215.3    9988.5    2216.7   10000.0    2216.1   10016.4    2218.0   10029.7    2219.8   10055.7
GR   2218.6   10087.5    2216.7   10103.1    2219.3   10118.4    2221.9   10135.6    2222.6   10167.9
GR   2219.8   10184.5    2223.5   10196.5    2223.5   10210.2    2222.0   10231.3    2222.9   10274.4
GR   2223.9   10298.4    2229.5   10313.9    2231.6   10338.2    2231.6   10394.9    2231.6   10438.8
GR   2232.6   10493.4
```

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NC     .05       .05       .04

X1    2030        18    9874.2   10067.5      1070      1060      1110
GR   2252.8    9793.7    2252.5    9830.5    2246.7    9853.0    2241.3    9874.2    2242.9    9900.3
GR   2244.0    9926.2    2242.1    9957.7    2242.5    9966.4    2241.6    9999.3    2242.0   10000.0
GR   2241.0   10018.4    2242.1   10044.1    2242.3   10067.5    2245.7   10093.3    2254.9   10121.7
GR   2256.9   10157.9    2256.5   10178.3    2255.4   10187.7


NC    .045      .045      .035

X1    2070        19    9943.5   10069.5       160       160       160
X3                            9874.2
GR   2246.1    9688.1    2248.9    9778.4    2250.4    9831.4    2251.0    9874.2    2250.4    9898.2
GR   2250.4    9923.7    2246.5    9943.5    2245.8    9962.9    2246.3   10000.0    2245.5   10021.6
GR   2246.7   10025.5    2249.5   10039.2    2246.6   10053.8    2248.5   10069.5    2256.2   10088.3
GR   2259.0   10113.5    2260.3   10163.3    2262.0   10215.1    2264.4   10249.6


NH       5      .045    9955.2      .035   10070.2      .045   10392.4      .035   10523.7      .045
NH   10710

X1    2170        34    9986.5   10355.2       520       480       530
X3                                           10390.0
GR   2275.4    9886.0    2274.5    9895.8    2258.2    9933.0    2261.4    9938.9    2262.4    9955.2
GR   2262.0    9966.8    2259.7    9979.0    2256.6    9986.5    2256.6   10000.0    2258.5   10031.4
GR   2257.6   10050.1    2258.7   10070.2    2258.6   10141.3    2255.9   10216.3    2255.3   10240.7
GR   2257.9   10257.8    2257.2   10275.7    2259.0   10288.9    2257.7   10332.0    2257.2   10354.4
GR   2257.4   10355.2    2258.7   10370.7    2261.6   10390.0    2261.2   10392.4    2256.7   10418.7
GR   2256.7   10424.1    2256.8   10444.2    2258.7   10523.7    2261.2   10534.2    2264.2   10552.9
GR   2265.6   10580.1    2268.0   10627.5    2270.8   10680.4    2270.2   10710


NH       5      .045    9915.0      .035   10022.5      .045     10687      .040     10870      .045
NH   11008

X1    2260        36    9928.2   10010.6       470       480       480
X3                                           10022.5
GR   2286.5    9504.5    2284.0    9547.8    2279.0    9591.4    2272.8    9676.2    2269.4    9723.0
GR   2271.5    9733.2    2271.2    9826.7    2271.6    9915.0    2268.2    9928.2    2268.4    9967.0
GR   2268.3    9971.7    2267.6   10000.0    2266.8   10010.6    2276.7   10022.5    2277.1   10024.6
GR   2278.3   10061.3    2276.9   10093.0    2271.9   10116.9    2276.6   10142.2    2278.8   10173.0
GR   2278.4   10207.4    2277.8   10217.0    2280.0     10290      2276     10347    2280.0     10410
GR   2282.7     10508    2282.0     10629    2272.0     10687    2269.3     10716    2270.6     10740
GR   2270.0     10766    2271.3     10804    2270.6     10838    2272.0     10870    2280.0     10907
GR   2282.0     11008
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NH      5      .045    9943.1      .035   10110.1      .045   10890.1      .040   11031.6      .045
NH  11209

X1   2310        43    9963.4   10110.1       323      210      220
X3                                          10126.1
GR  2294.0    9694.6    2286.6    9724.9    2279.8   9775.6   2278.8    9803.3    2279.9    9832.4
GR  2277.9    9885.7    2277.9    9935.4    2276.8   9943.1   2276.0    9963.4    2273.3   10000.0
GR  2273.2   10013.4    2274.8   10036.0    2274.2  10054.9   2273.7   10093.0    2273.6   10110.1
GR  2283.6   10126.1    2283.9   10162.2    2284.2  10194.7   2284.6   10231.8    2286.9   10283.2
GR  2286.3   10309.7    2284.3   10332.6    2286.6  10359.7   2290.0   10499.5    2291.4   10573.2
GR  2289.5   10623.7    2290.3   10668.1    2286.2  10716.7   2289.7   10752.7    2291.2   10790.4
GR  2289.7   10856.4    2274.3   10890.1    2275.2  10908.2   2276.4   10968.2    2274.8   10985.2
GR  2275.8   10992.9    2276.1   11005.6    2275.4  11027.2   2275.5   11031.6    2287.0   11080.5
GR  2289.7   11141.9    2288.7   11168.0    2288.8    11209


QT      4       1652       2499       2922       3667

NH      5      .045    9962.2      .035   10033.3      .045   11139.1      .040   11290.1      .045
NH  11398

        QT VALUES ARE FROM CP 35A.
X1   2400        55    9778.6   10014.9       320      320      320
X3                                          10033.3
GR  2305.0    9627.1    2303.2    9663.3    2299.0   9695.4   2291.3    9730.7    2289.1    9757.9
GR  2289.1    9759.2    2287.3    9778.6    2289.0   9795.9   2285.4    9817.6    2288.2    9844.7
GR  2290.4    9912.7    2290.8    9962.2    2288.2   9974.2   2287.4    9975.8    2287.4    9996.1
GR  2287.6   10000.0    2287.6   10014.9    2296.1  10033.3   2290.4   10062.9    2291.9   10094.6
GR  2290.2   10138.6    2292.2   10177.0    2292.1  10220.2   2286.4   10248.6    2290.2   10272.5
GR  2295.2   10326.4    2297.2   10360.0    2296.8  10427.9   2295.3   10464.4    2297.8   10498.4
GR  2296.6   10518.6    2296.6   10550.4    2297.6  10747.7   2297.6   10865.7    2295.4   10909.2
GR  2292.8   10930.8    2295.0   10952.6    2297.5  11015.5   2298.4   11078.6    2297.4   11139.1
GR  2295.6   11155.0    2294.0   11168.9    2286.4  11179.8   2286.9   11187.4    2286.5   11212.6
GR  2287.6   11217.4    2288.4   11227.3    2287.0  11238.9   2288.5   11253.3    2288.5   11290.1
GR  2290.0   11316.3    2293.9   11344.9    2299.8  11357.9   2300.7   11372.0    2302.3     11398


NH      5      .045    9904.6      .035   10061.2      .045   10861.4      .030   11114.0      .055
NH  11406

X1   2470        49    9916.2   10057.1       320      320      320
X3                                          10061.2
GR  2305.0    9882.7    2304.7    9904.6    2301.0   9916.2   2298.2    9969.6    2298.2    9974.5
GR  2298.7   10000.0    2299.1   10020.8    2297.7  10036.5   2297.0   10057.1    2304.8   10061.2
GR  2303.6   10075.7    2304.2   10129.9    2304.0  10217.3   2302.6   10266.8    2300.4   10305.8
GR  2301.2   10355.4    2303.9   10373.5    2303.8  10392.7   2306.8   10422.6    2308.8   10465.6
GR  2308.5   10532.2    2309.1   10614.6    2308.6  10669.8   2307.6   10723.7    2305.8   10728.9
GR  2306.5   10741.7    2306.6   10756.9    2307.6  10761.6   2309.4   10813.5    2309.5   10861.4
GR  2302.8   10890.6    2301.2   10919.3    2300.0  10948.8   2301.1   10982.5    2299.6   11022.5
GR  2303.1   11042.2    2299.1   11056.3    2299.2  11065.7   2300.0   11073.8    2301.7   11092.0
GR  2301.9   11114.0    2308.8   11148.2    2311.1  11195.5   2314.3   11256.9    2315.4   11290.1
GR  2316.4   11328.3    2316.5   11343.7    2320.1  11357.0   2316.4     11406
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NH	5	.045	9985.2	.040	10273.5	.045	10715.7	.030	11071.5	.055
NH	11263									
X1	2580	48	9985.2	10162.9	580	580	580			
X3						10273.5				
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7	2313.8	10752.2
GR	2312.7	10768.8	2315.6	10797.5	2314.9	10816.9	2312.9	10852.0	2314.7	10864.3
GR	2315.3	10894.1	2315.2	10923.1	2314.2	10946.5	2311.9	10960.6	2315.4	10993.5
GR	2316.0	11021.1	2313.5	11041.7	2320.5	11071.5	2321.1	11087.3	2322.7	11150.0
GR	2322.4	11183.5	2322.8	11234.8	2320.6	11263				
NH	5	.045	9883.1	.040	10196.5	.045	10565.2	.040	10797.6	.055
NH	11117									
X1	2650	48	9903.4	10196.5	370	370	370			
X3						10224.2				
GR	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
[illegible]	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
GR	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
GR	2335.2	10436.7	2333.8	10457.2	2326.9	10480.1	2329.7	10509.9	2330.7	10565.2
GR	2329.4	10595.5	2326.8	10608.3	2330.8	10623.2	2330.0	10633.8	2331.3	10653.5
GR	2330.6	10678.1	2330.1	10678.3	2330.1	10696.3	2331.5	10718.7	2330.5	10748.7
GR	2331.3	10767.3	2326.6	10775.6	2330.8	10797.6	2332.0	10843.3	2333.2	10902.9
GR	2333.8	10950.4	2329.8	10964.9	2332.1	10979.6	2334.2	10998.2	2334.1	11019.9
GR	2334.6	11063.3	2334.4	11108.5	2332.3	11117				
NH	5	.045	9982	.040	10038	.045	10405	.04	10560	.055
NH	11050									
X1	2720	25	9982	10315	410	410	410			
X3						10405				
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
GR	2340.0	10405	2342.0	10430	2340.0	10450	2342.6	10512	2340.0	10560
GR	2344.0	10580	2345.3	10610	2342.4	10670	2344.0	10692	2344.0	10760
GR	2346.8	10835	2346.9	10870	2346.4	10885	2348.0	10900	2349.8	11050
NC	.045	.055	.035							
X1	2780	36	9960.7	10073.7	280	280	280			
[illegible]						10073.7				
[illegible]	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7

GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								
NH	6	.035	9951.9	.03	10024.3	.045	10253.5	.045	10706.9	.035
NH	10784	.055	10889.3							
X1	2850	34	9946.7	10024.3	370	370	370			
X3						10024.3				
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
GR	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
GR	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5
GR	2368.4	10294.6	2368.6	10370.3	2367.8	10463.0	2367.5	10531.7	2366.9	10583.5
GR	2366.4	10610.9	2367.9	10650.9	2368.9	10685.7	2365.6	10700.8	2365.8	10706.9
GR	2363.7	10715.9	2361.6	10757.6	2360.6	10771.0	2367.5	10784	2366.4	10793.5
GR	2365.9	10820.7	2366.3	10829.5	2366.4	10874.6	2365.8	10889.3		
NH	4	.035	10025.9	.045	10422.5	.035	10498.3	.045	10696.7	
X1	2970	35	9700.0	10025.9	635	635	635			
X3						10071.0				
GR	2389.5	9632	2388.0	9675	2386.4	9700	2388.0	9728	2389.7	9792.0
GR	2388.0	9850	2386.2	9908	2388.0	9965.6	2385.2	9997.4	2384.9	10000.0
GR	2387.6	10025.9	2390.0	10071.0	2390.5	10093.8	2389.8	10107.6	2391.4	10177.9
GR	2390.4	10234.1	2389.9	10282.8	2385.9	10296.3	2388.2	10321.9	2387.7	10348.8
GR	2386.4	10368.7	2384.9	10383.6	2386.7	10402.2	2385.7	10422.5	2382.5	10431.1
GR	2385.1	10454.9	2384.1	10476.9	2388.7	10498.3	2390.8	10543.9	2389.0	10547.2
GR	2388.4	10574.9	2390.6	10579.3	2392.4	10604.0	2395.5	10622.4	2394.3	10696.7
NH	5	.05	9908.3	.03	10030.6	.05	10293.1	.03	10410.9	.05
NH	10821									
X1	3090	36	9908.3	10161.7	690	690	690			
X3				9908.3		10049.5				
GR	2416.3	9714.3	2411.5	9775.9	2412.2	9823.6	2414.6	9874.7	2415.4	9908.3
GR	2413.8	9933.4	2415.0	9954.0	2415.3	9964.3	2410.9	9969.3	2410.9	10000.0
GR	2410.4	10019.7	2415.1	10030.6	2416.1	10049.5	2413.3	10083.3	2413.7	10136.8
GR	2413.1	10161.7	2414.4	10182.7	2413.4	10244.9	2413.3	10293.1	2409.3	10320.4
GR	2410.4	10349.4	2413.8	10372.6	2416.8	10410.9	2417.8	10461.6	2415.1	10490.5
GR	2412.7	10537.5	2410.5	10552.5	2416.0	10582.1	2416.9	10622.3	2416.8	10670.5
GR	2414.5	10692.6	2412.8	10700.9	2414.5	10718.2	2417.4	10754.4	2425.5	10811.7
GR	2424.6	10821								

NC	.05	.05	.035							
X1	3170	13	9962.0	10080.0	410	430	420			
GR	2448.0	9905.0	2440.0	9942.0	2432.0	9962.0	2427.0	9985.0	2426.0	10000.0
GR	2428.0	10018.0	2431.0	10080.0	2431.2	10118.0	2433.5	10147.0	2434.0	10215.0
GR	2438.0	10255.0	2442.5	10300.0	2448.0	10410.0				
NC	.045	.045	.045							
X1	3290	23	9829.6	10000.0	630	630	630			
GR	2476.0	9611.0	2470.8	9672.2	2466.6	9712.4	2464.1	9726.3	2461.9	9776.8
GR	2456.8	9829.6	2456.2	9866.9	2458.5	9891.0	2456.7	9914.8	2456.9	9936.1
GR	2457.3	9939.9	2454.3	9986.0	2452.1	10000.0	2460.3	10019.0	2462.7	10036.8
GR	2462.6	10073.4	2463.1	10107.5	2465.3	10171.9	2467.2	10225.2	2465.1	10278.5
GR	2463.5	10300.3	2467.0	10340.2	2468.8	10376.9				
X1	3390	23	9815.5	10032.6	530	530	530			
GR	2497.2	9774.1	2486.7	9805.0	2479.3	9815.5	2480.6	9830.3	2483.1	9863.8
GR	2481.4	9914.4	2478.9	9947.3	2481.5	9971.1	2476.4	9985.9	2475.6	9998.3
GR	2475.9	10000.0	2475.2	10008.0	2479.7	10016.3	2481.2	10032.6	2488.1	10051.3
GR	2487.7	10076.4	2483.7	10105.9	2489.1	10115.7	2486.1	10125.7	2485.4	10132.2
	2487.1	10167.3	2489.1	10213.7	2487.4	10235.0				
NC	.045	.045	.040							
X1	3490	16	9933.5	10015.6	460	490	530			
GR	2518.7	9876.6	2513.7	9903.1	2508.0	9918.7	2501.6	9933.5	2499.9	9945.9
GR	2502.2	9957.0	2501.3	9959.4	2499.2	9967.0	2496.7	9989.0	2497.0	10000.0
GR	2498.7	10012.5	2500.3	10015.6	2507.1	10041.8	2514.7	10065.3	2516.9	10097.8
GR	2516.8	10108.2								
NC	.045	.045	.035							
X1	3570	14	9968.3	10034.5	410	380	420			
GR	2537.0	9919.5	2526.5	9947.9	2519.2	9968.3	2520.8	9970.9	2515.8	9983.7
GR	2514.9	10000.0	2516.4	10011.0	2519.2	10034.5	2529.8	10064.4	2528.8	10092.1
GR	2530.3	10097.9	2534.0	10130.1	2536.5	10184.7	2535.7	10200.2		
X1	3650	14	9955.6	10039.8	400	440	420			
GR	2559.6	9898.9	2554.0	9913.7	2547.9	9932.1	2540.8	9945.9	2536.1	9955.6
GR	2534.5	9974.9	2534.4	9981.6	2535.1	10000.0	2537.0	10017.3	2537.0	10027.9
GR	2537.6	10039.8	2551.5	10065.6	2559.8	10108.1	2559.9	10120.2		

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QT      4      1029      1494      1714      2099

NC    .05       .05       .05

          QT VALUES ARE FROM CP G1.
X1   3740        13    9833.3   10035.6       480       480       480
GR  2575.9    9782.5    2565.6    9809.8    2562.7    9833.3    2563.9    9859.3    2563.4    9888.2
GR  2563.8    9910.7    2563.8    9946.7    2563.2    9979.0    2562.1   10000.0    2562.4   10021.1
GR  2562.7   10035.6    2572.0   10056.1    2580.1   10067.1

X1   3830        15    9933.1   10046.4       360       400       380
GR  2610.7    9813.9    2610.9    9857.8    2613.5    9898.0    2583.0    9933.1    2582.1    9941.0
GR  2581.4    9949.9    2585.0    9960.0    2582.9    9978.0    2584.7   10000.0    2585.2   10020.6
GR  2587.0   10046.4    2586.7   10087.3    2591.9   10138.3    2598.9   10166.3    2606.7   10179.3

X1   3930        19    9904.7   10075.4       550       510       530
GR  2639.8    9838.0    2624.9    9868.4    2615.8    9893.8    2613.6    9904.7    2612.6    9933.6
GR  2611.5    9938.5    2611.1    9953.7    2613.1    9973.8    2612.8   10000.0    2613.1   10013.5
GR  2614.0   10019.8    2609.8   10043.1    2611.8   10069.5    2609.5   10075.4    2615.6   10094.9
GR  2629.2   10123.2    2641.5   10147.4    2642.1   10187.3    2641.8   10195.9

    .05       .05       .045

X1   3990        10   10000.0   10026.7       280       320       320
GR  2662.4    9938.9    2635.0    9983.7    2622.9   10000.0    2624.8   10013.6    2625.9   10015.0
GR  2627.2   10026.7    2639.1   10051.7    2641.4   10085.4    2645.5   10108.7    2643.3   10112.0

X1   4070         7    9985.9   10013.0       400       380       420
GR  2677.7    9958.9    2658.7    9985.9    2652.0   10000.0    2648.4   10006.9    2658.3   10013.0
GR  2660.0   10016.3    2671.9   10065.8

X1   4190         9    9988.7   10013.0       630       630       630
GR  2726.6    9947.0    2697.9    9988.7    2695.1    9998.3    2695.7   10000.0    2695.3   10007.6
GR  2702.2   10013.0    2707.8   10029.7    2717.2   10097.9    2716.8   10098.4

X1   4280        10    9983.7   10014.0       470       500       480
GR  2794.4    9828.8    2761.7    9903.9    2738.3    9955.7    2729.6    9983.7    2729.4    9987.6
GR  2727.5   10000.0    2729.6   10014.0    2736.2   10027.0    2746.2   10042.3    2752.0   10063.8

NC    .06       .06       .055

X1   4380        12    9984.2   10013.8       530       530       530
    2775.8    9945.3    2773.4    9959.3    2761.0    9980.4    2759.1    9984.2    2755.2   10000.0
    2754.1   10007.9    2758.0   10013.8    2759.4   10017.7    2763.4   10044.1    2767.2   10055.5
GR  2778.0   10074.6    2782.3   10079.7
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X1	4420	10	9981.7	10011.0	230	200	210			
GR	2789.4	9937.9	2779.2	9965.6	2773.7	9981.7	2771.1	9985.9	2769.5	9998.3
GR	2770.4	10000.0	2771.1	10007.6	2775.9	10011.0	2785.7	10025.9	2796.3	10045.2
X1	4460	7	9988.3	10010.5	190	210	210			
GR	2815.8	9951.1	2784.8	9988.3	2783.2	10000.0	2783.1	10010.5	2785.5	10011.7
GR	2799.3	10033.8	2807.0	10055.9						
NC	.06	.06	.05							
X1	4610	10	9985.7	10012.4	790	790	790			
GR	2841.2	9933.9	2838.7	9959.8	2835.9	9985.7	2835.1	9987.8	2833.4	9998.7
GR	2833.4	10000.0	2835.6	10012.4	2844.1	10018.1	2858.6	10041.7	2864.0	10049.8
X1	4810	11	9952.3	9972.6	1090	1030	1060			
GR	2911.6	9867.8	2899.3	9925.7	2888.8	9952.3	2888.7	9959.7	2892.0	9972.6
GR	2894.7	9986.8	2894.1	10000.0	2892.8	10012.9	2894.5	10014.9	2918.7	10046.7
GR	2929.0	10063.6								
X1	4990	8	10000.0	10011.4	930	970	950			
GR	2981.0	9938.9	2972.8	9968.5	2965.2	9986.5	2952.7	10000.0	2950.3	10008.0
GR	2952.5	10011.4	2965.7	10030.8	2975.2	10047.0				
X1	5170	8	9994.5	10008.8	970	930	950			
GR	3078.9	9933.4	3050.7	9983.0	3043.9	9994.5	3042.7	10000.0	3044.9	10008.8
GR	3049.0	10011.2	3058.1	10031.7	3062.2	10053.3				
NC	.06	.06	.055							
X1	5350	12	9907.8	10016.6	960	940	950			
GR	3185.6	9858.0	3171.0	9887.0	3165.4	9907.8	3164.0	9952.0	3165.8	9977.2
GR	3162.1	9991.5	3161.7	10000.0	3161.3	10013.5	3161.4	10016.6	3167.1	10034.9
GR	3184.5	10061.5	3183.8	10062.0						
NC	.06	.06	.05							
X1	5510	8	9997.0	10023.2	840	840	840			
GR	3277.8	9984.0	3270.6	9997.0	3271.2	10000.0	3270.1	10018.7	3270.2	10023.2
GR	3281.7	10048.7	3288.9	10103.6	3289.5	10105.9				

X1	5610	7	9981.9	10000.0	520	540	530			
GR	3335.7	9939.2	3326.4	9967.9	3327.2	9981.9	3324.8	9991.1	3326.7	10000.0
GR	3327.9	10013.3	3332.2	10036.4						

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


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1710.000
         ******STREAM REACH DISTANCES REVISED 9-25-90 AS PER OCEAST.DAT*****
         THIS MODEL CONTAINS TWO WEIRS TO ESTIMATE BREAKOUT FLOW FOR THE WEST
         BRAID. ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL (CCTRIB.OUT).
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 1710.000     4.94  2206.84      .00  2164.86  2207.55      .72      .00      .00  2201.90
    2274.     166.    2086.      22.      29.     302.       7.       0.       0.   2205.10
      .00     5.72     6.90     2.97     .045     .035     .045     .000  2201.90  9977.96
  .010024       0.       0.       0.        0        0       10      .00   166.09 10144.05


*SECNO 1830.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     4.84  2220.14  2220.14      .00  2221.11      .97     8.19      .08  2215.30
    2274.      16.    2253.       5.       5.     284.       3.       5.       3.   2219.30
      .03     3.43     7.95     1.87     .045     .035     .045     .000  2215.30  9986.56
  .012451     640.     740.     650.       11        6        0      .00   140.48 10185.60


*SECNO 2030.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     2.88  2243.88  2243.88      .00  2244.66      .79    17.33      .02  2241.30
    2274.      64.    2177.      34.      13.     302.       9.      13.       7.   2242.30
      .07     4.90     7.22     3.58     .050     .040     .050     .000  2241.00  9864.09
  .020196    1070.    1110.    1060.        4       14        0      .00   210.36 10079.45


*SECNO 2070.000

3265 DIVIDED FLOW
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=     1  TARGET=    -9874.200
 2070.000     3.25  2248.75  2248.75      .00  2249.84     1.08     2.63      .09  2246.50
    2274.      53.    2221.       0.      13.     264.       0.      14.       8.   2248.50
      .07     4.13     8.42      .04     .045     .035     .045     .000  2245.50  9932.05
  .013656     160.     160.     160.        3        8        0      .00   130.66 10070.12


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .45


3470 ENCROACHMENT STATIONS=         .0   10390.0  TYPE=     1  TARGET=    10390.000
 2170.000     2.85  2258.15      .00      .00  2258.62      .48     8.73      .06  2256.60
    1336.      15.    1312.       8.       3.     236.       3.      17.      10.   2257.40
      .10     5.21     5.55     2.61     .035     .042     .045     .000  2255.30  9982.78
  .023762     520.     530.     480.        4        0        0      .00   238.37 10363.98


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10022.5  TYPE=     1  TARGET=    10022.500
 2260.000     3.21  2270.01  2270.01      .00  2270.92      .91     8.49      .13  2268.20
    1336.      35.    1265.      35.      10.     162.       6.      20.      12.   2266.80
      .12     3.56     7.80     5.71     .037     .035     .035     .000  2266.80  9714.60
  .013686     470.     480.     480.        2        8        0      .00   104.65 10014.46
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10126.1  TYPE=      1  TARGET=    10126.100
 2310.000     2.22  2275.42  2275.42      .00  2276.13      .72     3.30      .02  2276.00
    1336.       0.    1326.       9.       0.     195.       3.      21.      12.   2273.60
      .13      .00     6.81     3.55     .000     .035     .045     .000  2273.20  9971.30
  .016369     323.     220.     210.        3       19        0      .00   141.70 10113.01


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
[illegible] PROBABLE MINIMUM SPECIFIC ENERGY
[illegible] CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10033.3  TYPE=      1  TARGET=    10033.300
         QT VALUES ARE FROM CP 35A.
 2400.000     3.01  2288.41  2288.41      .00  2288.95      .55     5.98      .02  2287.30
    714.       23.     688.       2.       7.     115.       1.      22.      13.   2287.60
      .14     3.48     6.00     3.41     .045     .041     .035     .000  2285.40  9766.67
  .024598     320.     320.     320.       20       14        0      .00   118.19 10016.65


1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10061.2  TYPE=      1  TARGET=    10061.200
 2470.000     2.45  2299.45  2299.45      .00  2300.01      .56     6.82      .00  2301.00
    714.        0.     707.       6.       0.     118.       2.      23.      14.   2297.00
      .16      .00     6.01     3.98     .000     .035     .035     .000  2297.00  9945.77
  .018649     320.     320.     320.        4       15        0      .00   112.62 10058.39


1490 NH CARD USED
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN        SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID       ENDST


*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10273.5  TYPE=      1  TARGET=    10273.500
 2580.000     4.15  2316.05  2316.05      .00  2316.73      .69     12.24      .04  2317.00
    714.       0.     714.       0.       0.     107.       0.       24.      16.   2318.70
     .18      .00      6.64     .00     .000     .040     .000     .000  2311.90  9987.18
  .024079     580.     580.     580.       7       20        0      .00    85.41 10128.61


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10224.2  TYPE=      1  TARGET=    10224.200
 2650.000     2.88  2328.88  2328.88      .00  2329.42      .54      9.00      .01  2326.00
    714.       50.     664.       0.       7.     114.       0.       25.      16.   2332.00
     .20     6.77      5.82     .00     .040     .040     .000     .000  2326.00  9898.31
  .024560     370.     370.     370.       4       19        0      .00   118.32 10105.08


1490 NH CARD USED
*SECNO 2720.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10405.0  TYPE=      1  TARGET=    10405.000
 2720.000     3.29  2343.29  2343.29      .00  2343.71      .42      9.66      .01  2344.00
    714.       0.     370.     344.       0.     102.      53.       26.      18.   2344.00
     .22      .00      3.62     6.47     .000     .043     .045     .000  2340.00  9987.80
  .022625     410.     410.     410.       5       11        0      .00   209.33 10405.00
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10073.7  TYPE=      1  TARGET=    10073.700
 2780.000     3.61  2354.41  2354.41      .00  2354.99      .58     5.68      .05  2355.80
    714.       0.     714.       0.       0.     117.       0.      27.      19. 100000.00
     .23      .00     6.12      .00     .000     .035     .000     .000  2350.80  9968.25
  .018275     280.     280.     280.       12        8        0      .00   105.45 10073.70


1490 NH CARD USED
*SECNO 2850.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10024.3  TYPE=      1  TARGET=    10024.300
 2850.000     4.38  2364.78  2364.78      .00  2365.71      .93     4.36      .10  2364.60
   1367.      105.    1263.       0.      27.     159.       0.      29.      20. 100000.00
     .25     3.83     7.96      .00     .035     .030     .000     .000  2360.40  9915.42
  .009692     370.     370.     370.        3       11        0      .00   104.88 10020.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=          .0   10071.0  TYPE=      1  TARGET=    10071.000
 2970.000     5.48  2387.98  2387.98      .00  2388.49      .51     7.93      .04  2386.40
   1367.       91.    1274.       2.      19.     220.       1.      32.      22.   2387.60
     .28     4.68     5.80     1.41     .035     .035     .045     .000  2382.50  9675.32
  .016705     635.     635.     635.       20       11        0      .00   233.77 10033.03


1490 NH CARD USED
*SECNO 3090.000
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS=     9908.3   10049.5  TYPE=      1  TARGET=      141.200
 3090.000     4.23  2413.53  2413.53      .00  2414.77     1.25     8.74      .22  2415.40
    1367.       0.    1367.       0.       0.     152.       0.      35.      25. 100000.00
      .30      .00     8.97      .00     .000     .030     .000     .000  2409.30  9966.32
  .009925     690.     690.     690.       20       18        0      .00    60.63 10026.95


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     4.34  2430.34  2430.34      .00  2431.40     1.06     5.10      .02  2432.00
    1652.       0.    1652.       0.       0.     199.       0.      37.      25.   2431.00
      .31      .00     8.28      .00     .000     .035     .000     .000  2426.00  9969.66
  .014576     410.     420.     430.       20        8        0      .00    96.60 10066.26


*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3290.000     5.40  2457.50  2457.50      .00  2458.29      .79    11.70      .03  2456.80
    1652.       6.    1326.     320.       3.     205.      34.      40.      27.   2452.10
      .34     2.56     6.45     9.46     .045     .045     .045     .000  2452.10  9822.35
  .024471     630.     630.     630.       20       11        0      .00   166.47 10012.51


*SECNO 3390.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3390.000     5.44  2480.64  2480.64      .00  2481.61      .97     12.97      .06  2479.30
   1652.      4.    1648.       0.       1.     208.       0.       43.      29.   2481.20
     .36     3.45     7.93      .00     .045     .045     .000     .000  2475.20  9813.60
 .024466     530.     530.     530.        4        5        0      .00   108.89 10026.50


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
3490.000     4.47  2501.17  2501.17      .00  2502.44     1.28     10.87      .09  2501.60
   1652.       0.    1648.       4.       0.     182.       1.       45.      30.   2500.30
     .37      .00     9.08     2.44     .000     .040     .045     .000  2496.70  9936.66
 .017461     460.     530.     490.        5       15        0      .00    74.40 10018.94


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
3570.000     4.67  2519.57  2519.57      .00  2521.00     1.43      6.34      .05  2519.20
   1652.       0.    1652.       0.       0.     172.       0.       47.      31.   2519.20
     .39     1.19     9.61     1.19     .045     .035     .045     .000  2514.90  9967.26
 .013193     410.     420.     380.       20        8        0      .00    63.14 10035.55


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
3650.000     3.63  2538.03  2538.03      .00  2539.17     1.14      5.68      .03  2536.10
   1652.      14.    1638.       0.       4.     191.       0.       48.      31.   2537.60
     .40     3.53     8.60     1.27     .045     .035     .045     .000  2534.40  9951.63
 .013852     400.     420.     440.       20       15        0      .00    88.96 10040.59


*SECNO 3740.000
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP G1.

3740.000	2.05	2564.15	2564.15	.00	2564.62	.47	9.43	.07	2562.70
1029.	41.	977.	11.	9.	177.	2.	50.	33.	2562.70
.42	4.83	5.51	4.56	.050	.050	.050	.000	2562.10	9821.54
.040920	480.	480.	480.	20	14	0	.00	217.25	10038.80

*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3830.000	3.90	2585.30	2585.30	.00	2586.12	.82	14.03	.11	2583.00
1029.	15.	1014.	0.	3.	139.	0.	52.	35.	2587.00
.44	4.95	7.29	.00	.050	.050	.000	.000	2581.40	9930.45
3565	360.	380.	400.	5	17	0	.00	91.58	10022.03

*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3930.000	3.28	2612.78	2612.78	.00	2613.54	.76	17.91	.01	2613.60
1029.	0.	902.	127.	0.	130.	17.	54.	36.	2609.50
.46	.00	6.93	7.41	.000	.050	.050	.000	2609.50	9928.40
.034176	550.	530.	510.	4	15	0	.00	101.50	10085.89

*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3990.000	5.38	2628.28	2628.28	.00	2629.84	1.56	8.58	.24	2622.90
1029.	144.	882.	3.	20.	85.	1.	55.	36.	2627.20
.47	7.36	10.41	2.73	.050	.045	.050	.000	2622.90	9992.75
.021954	280.	320.	320.	5	14	0	.00	36.23	10028.98

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000     8.27  2656.67  2656.67      .00  2658.76     2.09    10.18      .16  2658.70
    1029.       0.    1029.       0.       0.      89.       0.      56.      36.   2658.30
      .48      .00    11.61      .00     .000     .045     .000     .000  2648.40  9990.18
  .027073     400.     420.     380.       20       14        0      .00    21.82 10011.99


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     5.19  2700.29  2700.29      .00  2702.19     1.89    15.01      .02  2697.90
    1029.      18.    1011.       0.       4.      91.       0.      57.      37.   2702.20
      .49     4.28    11.13      .00     .050     .045     .000     .000  2695.10  9985.22
  .021123     630.     630.     630.       20       14        0      .00    26.28 10011.51


*SECNO 4280.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     4.39  2731.89  2731.89      .00  2733.32     1.44     9.51      .05  2729.60
    1029.      36.     971.      21.       8.      99.       5.      58.      37.   2729.60
      .51     4.30     9.84     4.11     .050     .045     .050     .000  2727.50  9976.33
  .018633     470.     480.     500.       20       15        0      .00    42.18 10018.51


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     5.54  2759.64  2759.64      .00  2761.22     1.57    12.33      .04  2759.10
    1029.       0.    1014.      15.       0.     100.       4.      59.      38.   2758.00
      .52     1.67    10.13     3.81     .060     .055     .060     .000  2754.10  9983.11
  .029874     530.     530.     530.       20       11        0      .00    36.20 10019.31
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     4.88  2774.38  2774.38      .00  2776.09     1.71      6.55      .04  2773.70
    1029.       1.     1028.       0.       1.      98.       0.       60.      38.   2775.90
      .53     2.10     10.50      .00     .060     .055     .000      .000  2769.50  9979.71
  .032619     230.      210.     200.       20       11        0       .00    30.22 10009.92


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     4.49  2787.59  2787.59      .00  2789.39     1.80      6.13      .03  2784.80
    1029.      20.      976.      34.       5.      89.       7.       60.      38.   2783.10
      .53     4.21     11.00     4.50     .060     .055     .060      .000  2783.10  9984.95
  .026296     190.      210.     210.       20       11        0       .00    30.11 10015.05


*SECNO 4610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     4.63  2838.03  2838.03      .00  2839.43     1.40     18.18      .04  2835.90
    1029.      77.      947.       5.      21.      96.       2.       62.      39.   2835.60
      .56     3.66      9.84     2.72     .060     .050     .060      .000  2833.40  9966.03
  .020314     790.      790.     790.        5        8        0       .00    48.00 10014.03


*SECNO 4810.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     4.95  2893.65  2893.65      .00  2895.08     1.43     21.71      .01  2888.80
    1029.     182.      817.      30.      30.      79.      11.       65.      40.   2892.00
      .59     6.10     10.37     2.68     .060     .050     .060      .000  2888.70  9940.02
  .020515    1090.     1060.    1030.       20        8        0       .00    50.67 10013.90
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000     7.14  2957.44  2957.44      .00  2959.65     2.22    18.81      .24  2952.70
    1029.      60.     870.      99.      12.      68.      18.      68.      41.   2952.50
      .61     4.96    12.80     5.52     .060     .050     .060     .000  2950.30  9994.89
  .019167     930.     950.     970.       20       11        0      .00    23.77 10018.65


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     6.00  3048.70  3048.70      .00  3050.85     2.15    18.88      .01  3043.90
    1029.     112.     902.      15.      19.      73.       4.      70.      41.   3044.90
      .63     5.77    12.39     3.46     .060     .050     .060     .000  3042.70  9986.39
  .020606     970.     950.     930.       20       15        0      .00    24.64 10011.02


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     3.69  3164.99  3164.99      .00  3165.78      .79    26.67      .14  3165.40
    1029.       0.     881.     148.       0.     123.      21.      72.      43.   3161.40
      .67      .00     7.14     7.14     .000     .055     .060     .000  3161.30  9920.66
  .040510     960.     950.     940.       20       14        0      .00    93.05 10028.13


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     3.82  3273.92  3273.92      .00  3275.40     1.48     25.79      .21  3270.60
    1029.      49.     896.      84.      10.      87.      15.      75.      44.   3270.20
      .70     4.93    10.26     5.47     .060     .050     .060     .000  3270.10  9991.00
  .024070     840.     840.     840.       20        8        0      .00    40.46 10031.46


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     4.41  3329.21  3329.21      .00  3330.29     1.08     12.36      .04  3327.20
    1029.     281.     591.     158.      46.      60.      30.      76.      44.   3326.70
      .71     6.11     9.80     5.27     .060     .050     .060     .000  3324.80  9959.23
  .022655     520.     530.     540.       20        8        0      .00    61.09 10020.33
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TW WEIR BETWEEN STAS 3.09 AND 3.17

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
284.81	287.10	.80	284.81	287.10	.80	8	2413.525	2430.335	3090.000	3170.000

TW WEIR BETWEEN STAS 2.72 AND 2.85

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
653.42	653.67	.04	938.23	940.77	.27	8	2343.291	2364.781	2720.000	2850.000

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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      50-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH           (OCSPLIT.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                          .01                                2165.25

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     2                 -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1710.000
         ******STREAM REACH DISTANCES REVISED 9-25-90 AS PER OCEAST.DAT*****
         THIS MODEL CONTAINS TWO WEIRS TO ESTIMATE BREAKOUT FLOW FOR THE WEST
         BRAID. ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL (CCTRIB.OUT).
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 1710.000     5.52  2207.42      .00  2165.25  2208.42     1.00      .00      .00  2201.90
    3445.     225.    3172.      48.      36.     387.      13.       0.       0.   2205.10
      .00     6.20     8.19     3.62     .045     .035     .045     .000  2201.90  9976.57
  .010157       0.       0.       0.        0        0       10      .00   170.34 10146.92


*SECNO 1830.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.39  2220.69  2220.69      .00  2222.09     1.40     8.52      .12  2215.30
    3445.      22.    3396.      27.       6.     355.      10.       7.       3.   2219.30
      .02     3.82     9.56     2.69     .045     .035     .045     .000  2215.30  9986.34
  .013341     640.     740.     650.        8        5        0      .00   149.42 10187.39


*SECNO 2030.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.37  2244.37  2244.37      .00  2245.40     1.02    17.48      .04  2241.30
    3445.      99.    3278.      68.      19.     397.      16.      17.       7.   2242.30
      .06     5.33     8.25     4.16     .050     .040     .050     .000  2241.00  9862.14
  .018920    1070.    1110.    1060.        4       14        0      .00   221.09 10083.23


*SECNO 2070.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     3.97  2249.47  2249.47      .00  2250.84     1.37      2.47      .10  2246.50
    3445.     108.    3335.       3.      22.     351.       1.       18.       8.   2248.50
      .06     4.81     9.50     2.19     .045     .035     .045      .000  2245.50  9928.42
  .012832     160.     160.     160.      20       11        0       .00   143.15 10071.87


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .39


3470 ENCROACHMENT STATIONS=         .0   10390.0  TYPE=      1  TARGET=    10390.000
 2170.000     3.08  2258.38      .00      .00  2258.88      .50      7.96      .09  2256.60
    1719.      21.    1681.      17.       4.     296.       6.       23.      11.   2257.40
      .09     5.38     5.67     3.01     .035     .042     .045      .000  2255.30  9932.58
  .021521     520.     530.     480.       5        0        0       .00   273.48 10366.94


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10022.5  TYPE=      1  TARGET=    10022.500
 2260.000     3.58  2270.38  2270.38      .00  2271.41     1.03      7.71      .16  2268.20
    1719.      66.    1608.      45.      18.     193.       8.       25.      13.   2266.80
      .11     3.62     8.35     5.86     .038     .035     .035      .000  2266.80  9709.52
  .012468     470.     480.     480.       3        8        0       .00   113.40 10014.90
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10126.1  TYPE=      1  TARGET=    10126.100
 2310.000     2.48  2275.68  2275.68      .00  2276.52      .83     3.08      .02  2276.00
    1719.       0.     1706.      13.       0.     232.       3.      27.      13.   2273.60
      .12      .00      7.34     3.80     .000     .035     .045     .000  2273.20  9967.69
  .015582     323.     220.     210.        3       19        0      .00   145.75 10113.43


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=          .0   10033.3  TYPE=      1  TARGET=    10033.300
          QT VALUES ARE FROM CP 35A.
 2400.000     3.08  2288.48  2288.48      .00  2289.04      .55     5.64      .03  2287.30
     773.      27.     743.       3.       8.     123.       1.      28.      14.   2287.60
      .13     3.59      6.04     3.57     .045     .041     .035     .000  2285.40  9765.84
  .023950     320.     320.     320.       20       11        0      .00   123.21 10016.81


1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10061.2  TYPE=      1  TARGET=    10061.200
 2470.000     2.51  2299.51  2299.51      .00  2300.10      .58     6.68      .01  2301.00
     773.       0.     766.       7.       0.     125.       2.      29.      15.   2297.00
      .14      .00      6.15     4.02     .000     .035     .035     .000  2297.00  9944.58
  .018339     320.     320.     320.        4       15        0      .00   113.84 10058.42


1490 NH CARD USED
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ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10273.5  TYPE=      1  TARGET=    10273.500
 2580.000     4.23  2316.13  2316.13      .00  2316.84     .71     12.06      .04  2317.00
    773.       0.     773.       0.       0.     115.      0.       31.      17.   2318.70
     .17      .00     6.74      .00     .000     .040    .000      .000  2311.90  9987.00
  .023769     580.     580.     580.        7       20       0      .00    88.25 10129.68


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10224.2  TYPE=      1  TARGET=    10224.200
 2650.000     2.95  2328.95  2328.95      .00  2329.51     .55      8.90      .02  2326.00
    773.       53.     720.       0.       8.     122.      0.       32.      17.   2332.00
     .19     6.85     5.90      .00     .040     .040    .000      .000  2326.00  9898.19
  .024338     370.     370.     370.        4       19       0      .00   122.99 10106.30


1490 NH CARD USED
*SECNO 2720.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10405.0  TYPE=      1  TARGET=    10405.000
 2720.000     3.35  2343.35  2343.35      .00  2343.77     .41      9.50      .01  2344.00
    773.       0.     416.     357.       0.     114.     55.       33.      19.   2344.00
     .21      .00     3.66     6.47     .000     .043    .045      .000  2340.00  9987.29
  .022076     410.     410.     410.        4       11       0      .00   222.73 10405.00
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10073.7  TYPE=      1  TARGET=    10073.700
 2780.000     3.67  2354.47  2354.47      .00  2355.08      .61      5.58      .06  2355.80
     773.       0.     773.       0.       0.     123.       0.       34.      20. 100000.00
      .22      .00     6.28      .00     .000     .035     .000     .000  2350.80  9967.92
  .018049     280.     280.     280.        6        8        0      .00   105.77 10073.70


1490 NH CARD USED
*SECNO 2850.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10024.3  TYPE=      1  TARGET=    10024.300
 2850.000     4.69  2365.09  2365.09      .00  2366.13     1.04      4.15      .13  2364.60
    1710.     170.    1541.       0.      37.     181.       0.       35.      21. 100000.00
      .23     4.58     8.49      .00     .035     .030     .000     .000  2360.40  9914.94
  .009337     370.     370.     370.        4       11        0      .00   106.08 10021.02


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=        .0   10071.0  TYPE=      1  TARGET=    10071.000
 2970.000     5.60  2388.10  2388.10      .00  2388.73      .63      8.20      .04  2386.40
    1710.     123.    1583.       4.      23.     245.       2.       39.      24.  2387.60
      .26     5.43     6.46     1.81     .035     .035     .045     .000  2382.50  9672.07
  .019009     635.     635.     635.       20       11        0      .00   248.58 10035.33


1490 NH CARD USED
*SECNO 3090.000
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN        SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID       ENDST


3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9908.3   10049.5  TYPE=      1  TARGET=      141.200
 3090.000     4.75  2414.05  2414.05      .00  2415.37     1.32     9.20      .21  2415.40
    1710.       0.    1710.       0.       0.     186.       0.      43.      26. 100000.00
      .28      .00     9.21      .00     .000     .030     .000     .000  2409.30  9929.48
  .009869     690.     690.     690.        2       12        0      .00    70.65 10028.16


*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
     0.000     5.12  2431.12  2431.12      .00  2432.33     1.21     4.86      .01  2432.00
    2499.       0.     2498.       1.       0.     283.       1.      45.      27.   2431.00
      .30      .00     8.84      .51     .000     .035     .050     .000  2426.00  9966.06
  .013022     410.     420.     430.       20        8        0      .00   136.07 10102.13


*SECNO 3290.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3290.000     5.88  2457.98  2457.98      .00  2458.94      .97    10.91      .02  2456.80
    2499.      26.     2075.     398.       7.     278.      40.      49.      29.   2452.10
      .32     3.59     7.47     9.95     .045     .045     .045     .000  2452.10  9817.42
  .024150     630.     630.     630.       20       11        0      .00   183.79 10013.62


*SECNO 3390.000

3265 DIVIDED FLOW
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```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     6.14  2481.34  2481.34      .00  2482.44      1.09     12.92       .04  2479.30
    2499.      14.    2485.       0.       3.     295.       0.       53.       31.   2481.20
      .34     4.59     8.41      .05     .045     .045     .045      .000  2475.20  9812.60
  .024619     530.     530.     530.        5        8        0       .00   143.62 10032.99


*SECNO 3490.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     5.36  2502.06  2502.06      .00  2503.57      1.51     10.45       .12  2501.60
    2499.       0.    2476.      22.       0.     250.       6.       56.       33.   2500.30
      .35     1.48     9.90     3.77     .045     .040     .045      .000  2496.70  9932.44
  .016171     460.     530.     490.        4       15        0       .00    88.86 10022.37


*SECNO 3570.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     5.65  2520.55  2520.55      .00  2522.30      1.75      5.76       .07  2519.20
    2499.       7.    2485.       7.       3.     234.       3.       59.       34.   2519.20
      .36     2.65    10.63     2.65     .045     .035     .045      .000  2514.90  9964.52
  .011789     410.     420.     380.       20        8        0       .00    72.75 10038.31


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     4.35  2538.75  2538.75      .00  2540.23      1.48      5.09       .03  2536.10
    2499.      30.    2466.       3.       7.     251.       1.       61.       34.   2537.60
      .37     4.14     9.81     2.34     .045     .035     .045      .000  2534.40  9950.14
  .012471     400.     420.     440.       20       15        0       .00    91.79 10041.93
```

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

*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP G1.

3740.000	2.31	2564.41	2564.41	.00	2564.99	.58	8.40	.09	2562.70
1494.	60.	1418.	15.	12.	229.	3.	64.	36.	2562.70
.40	5.09	6.18	4.81	.050	.050	.050	.000	2562.10	9819.46
.036594	480.	480.	480.	20	11	0	.00	219.90	10039.36

*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3830.000	4.38	2585.78	2585.78	.00	2586.77	.99	12.79	.12	2583.00
1494.	24.	1470.	0.	4.	183.	0.	66.	38.	2587.00
.41	5.41	8.03	.00	.050	.050	.000	.000	2581.40	9929.90
1115	360.	380.	400.	5	17	0	.00	98.96	10028.87

*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3930.000	3.88	2613.38	2613.38	.00	2614.02	.64	16.09	.04	2613.60
1494.	0.	1307.	187.	0.	211.	24.	68.	39.	2609.50
.43	.00	6.21	7.74	.000	.050	.050	.000	2609.50	9910.92
.029751	550.	530.	510.	5	10	0	.00	169.18	10087.82

*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3990.000	6.31	2629.21	2629.21	.00	2631.12	1.92	7.55	.38	2622.90
1494.	206.	1271.	16.	27.	109.	4.	70.	40.	2627.20
.44	7.71	11.63	3.88	.050	.045	.050	.000	2622.90	9991.51
019492	280.	320.	320.	4	14	0	.00	39.41	10030.91

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


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000     9.58  2657.98  2657.98      .00  2660.40     2.42     9.31      .15  2658.70
    1494.       0.     1494.       0.       0.     120.       0.      71.      40.   2658.30
      .45      .00     12.48      .00     .000     .045     .000     .000  2648.40  9987.41
  .025630     400.      420.     380.       20       14        0      .00    25.40 10012.80


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     6.34  2701.44  2701.44      .00  2703.72     2.29    14.09      .01  2697.90
    1494.      49.     1445.       0.       9.     118.       0.      73.      41.   2702.20
      .46     5.36     12.29      .00     .050     .045     .000     .000  2695.10  9983.56
  .019696     630.      630.     630.       20       14        0      .00    28.85 10012.40


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     5.25  2732.75  2732.75      .00  2734.48     1.73     8.73      .06  2729.60
    1494.      81.     1366.      47.      16.     125.      10.      74.      41.   2729.60
      .48     5.07     10.95     4.84     .050     .045     .050     .000  2727.50  9973.56
  .016869     470.      480.     500.       20       15        0      .00    46.64 10020.20


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     6.53  2760.63  2760.63      .00  2762.46     1.82    10.82      .03  2759.10
    1494.       7.     1428.      58.       2.     129.      13.      76.      42.   2758.00
      .49     3.06     11.04     4.65     .060     .055     .060     .000  2754.10  9981.13
  .025216     530.      530.     530.       20       11        0      .00    44.71 10025.84
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     5.92  2775.42  2775.42      .00  2777.48      2.07      5.72       .07  2773.70
    1494.      16.     1478.       0.       4.     127.       0.       77.       42.   2775.90
      .49     3.70     11.60      .00     .060     .055     .000     .000  2769.50  9976.68
  .029536     230.      210.     200.       20       11        0       .00     33.98 10010.66


*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4460.000     5.57  2788.67  2788.67      .00  2790.86      2.19      5.55       .04  2784.80
    1494.      45.     1381.      69.       9.     113.      13.       77.       42.   2783.10
      .50     4.98     12.27     5.18     .060     .055     .060     .000  2783.10  9983.66
  .023842     190.      210.     210.       20       11        0       .00     33.11 10016.77


*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4610.000     5.60  2839.00  2839.00      .00  2840.51      1.50     15.65       .07  2835.90
    1494.     201.     1281.      12.      45.     122.       4.       80.       43.   2835.60
      .52     4.51     10.47     3.09     .060     .050     .060     .000  2833.40  9956.66
  .016718     790.      790.     790.       20        5        0       .00     58.02 10014.68


*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4810.000     6.08  2894.78  2894.78      .00  2896.13      1.35     16.79       .02  2888.80
    1494.     271.     1069.     154.      45.     102.      45.       85.       44.   2892.00
      .56     5.99     10.50     3.44     .060     .050     .060     .000  2888.70  9937.15
  .014950    1090.     1060.    1030.       20        8        0       .00     78.12 10015.27
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000      8.53  2958.83  2958.83      .00  2961.45      2.63     15.51       .38  2952.70
    1494.      115.     1193.     185.      20.      84.      29.      88.       46.   2952.50
      .58      5.69     14.23     6.29     .060     .050     .060     .000   2950.30  9993.38
  .017909      930.      950.     970.      20       11        0      .00     27.32 10020.70


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000      7.32  3050.02  3050.02      .00  3052.56      2.53     17.27       .01  3043.90
    1494.      203.     1255.      36.      32.      92.       9.      91.       46.   3044.90
      .60      6.42     13.68     4.17     .060     .050     .060     .000   3042.70  9984.14
  .018434      970.      950.     930.      20       11        0      .00     29.36 10013.50


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000      4.22  3165.52  3165.52      .00  3166.38       .86     24.40       .17  3165.40
    1494.        0.     1286.     208.       0.     173.      27.      95.       48.   3161.40
      .63       .05      7.41     7.61     .060     .055     .060     .000   3161.30  9907.34
  .038251      960.      950.     940.      20       11        0      .00    117.59 10029.84


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     4.71  3274.81  3274.81      .00  3276.61     1.80    23.80      .28  3270.60
    1494.      88.     1264.     142.      16.     111.      24.     98.      49.   3270.20
      .66     5.50    11.44     6.00     .060     .050     .060     .000  3270.10  9989.40
  .021832     840.     840.     840.       20        8        0      .00    44.03 10033.43


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5610.000     5.04  3329.84  3329.84      .00  3331.18     1.34    11.85      .05  3327.20
    1494.     429.     793.     272.      61.      72.      44.    100.      50.   3326.70
      .67     7.07    11.07     6.20     .060     .050     .060     .000  3324.80  9957.29
  .022953     520.     530.     540.       20        8        0      .00    66.42 10023.71
```

TW WEIR BETWEEN STAS 3.09 AND 3.17

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
788.67	788.50	.02	788.67	788.50	.02	7	2414.050	2431.116	3090.000	3170.000

TW WEIR BETWEEN STAS 2.72 AND 2.85

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
937.19	935.08	.23	1725.86	1723.58	.13	7	2343.353	2365.090	2720.000	2850.000

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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH          (OCSPLIT.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             4                    .01                             2165.37

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN      ALLDC   IBW     CHNIM   ITRACE

    3                -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1710.000
          ******STREAM REACH DISTANCES REVISED 9-25-90 AS PER OCEAST.DAT*****
          THIS MODEL CONTAINS TWO WEIRS TO ESTIMATE BREAKOUT FLOW FOR THE WEST
          BRAID. ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL (CCTRIB.OUT).
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 1710.000     5.80  2207.70      .00  2165.37  2208.83     1.13      .00      .00  2201.90
    4047.     255.    3728.      65.      40.     428.      17.       0.       0.   2205.10
      .00     6.37     8.70     3.88     .045     .035     .045     .000  2201.90  9975.89
  .010011       0.       0.       0.        0        0       11      .00   172.42 10148.31


*SECNO 1830.000

3265 DIVIDED FLOW

3693 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.73  2221.03  2221.03      .00  2222.54     1.51     8.15      .11  2215.30
    4047.      25.    3971.      51.       7.     400.      17.       8.       3.   2219.30
      .02     3.82     9.94     3.02     .045     .035     .045     .000  2215.30  9986.21
  .012329     640.     740.     650.        6        5        0      .00   154.94 10188.49


*SECNO 2030.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.61  2244.61  2244.61      .00  2245.74     1.13    16.42      .04  2241.30
    4047.     118.    3841.      88.      21.     443.      20.      19.       8.   2242.30
      .06     5.48     8.68     4.37     .050     .040     .050     .000  2241.00  9861.22
  .018121    1070.    1110.    1060.        4       14        0      .00   223.79 10085.00


*SECNO 2070.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     4.28  2249.78  2249.78      .00  2251.29     1.51     2.38      .11  2246.50
    4047.     138.    3904.       5.      27.     391.       2.      21.       8.   2248.50
      .06     5.05    10.00     2.59     .045     .035     .045     .000  2245.50  9926.84
    .2382     160.     160.     160.      20       11        0      .00   145.79 10072.63
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=          .0   10390.0  TYPE=      1  TARGET=    10390.000
 2170.000     3.21  2258.51      .00      .00  2259.01      .50     7.62      .10  2256.60
    1916.      25.    1869.      23.       5.     326.       7.      25.      11.   2257.40
      .09     5.39     5.72     3.17     .035     .042     .045     .000  2255.30  9932.32
  .020620     520.     530.     480.        5        0        0      .00   289.74 10368.30


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10022.5  TYPE=      1  TARGET=    10022.500
 2260.000     3.73  2270.53  2270.53      .00  2271.64     1.11     7.55      .18  2268.20
    1916.      84.    1782.      50.      22.     205.       8.      29.      13.   2266.80
      .10     3.73     8.68     6.01     .039     .035     .035     .000  2266.80  9707.42
  .012397     470.     480.     480.        3       11        0      .00   117.01 10015.08


1490 NH CARD USED
*SECNO 2310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10126.1  TYPE=      1  TARGET=    10126.100
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


2310.000     2.61  2275.81  2275.81      .00  2276.70      .89     3.04      .02  2276.00
    1916.      0.    1901.      15.       0.     251.       4.      30.      14.   2273.60
     .11      .00     7.57     3.90     .000     .035     .045     .000  2273.20  9965.93
 .015214     323.     220.     210.        2       19        0      .00   147.72 10113.64


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=         .0   10033.3  TYPE=      1  TARGET=    10033.300
          QT VALUES ARE FROM CP 35A.
2400.000     3.09  2288.49  2288.49      .00  2289.06      .57     5.54      .03  2287.30
    791.      28.     760.       3.       8.     124.       1.      31.      15.   2287.60
     .13     3.66     6.13     3.64     .045     .041     .035     .000  2285.40  9765.74
 .024553     320.     320.     320.       20       11        0      .00   123.80 10016.83


1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10061.2  TYPE=      1  TARGET=    10061.200
2470.000     2.53  2299.53  2299.53      .00  2300.12      .59     6.72      .01  2301.00
    791.       0.     784.       7.       0.     127.       2.      32.      16.   2297.00
     .14      .00     6.18     4.02     .000     .035     .035     .000  2297.00  9944.20
 .018165     320.     320.     320.        4       15        0      .00   114.23 10058.43


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3470 ENCROACHMENT STATIONS=        .0   10273.5  TYPE=      1  TARGET=    10273.500
 2580.000     4.30  2316.20  2316.20      .00  2316.87      .66     11.45      .02  2317.00
    791.       0.     791.       0.       0.     121.       0.       34.      17.   2318.70
     .17      .00     6.54      .00     .000     .040     .000     .000  2311.90  9986.86
  .021546     580.     580.     580.        7       17        0      .00    90.70 10130.60


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10224.2  TYPE=      1  TARGET=    10224.200
 2650.000     2.97  2328.97  2328.97      .00  2329.53      .56      8.48      .01  2326.00
    791.       54.     738.       0.       8.     124.       0.       35.      18.   2332.00
     .18     6.89     5.94      .00     .040     .040     .000     .000  2326.00  9898.16
  .024417     370.     370.     370.        4       19        0      .00   124.20 10106.61


1490 NH CARD USED
*SECNO 2720.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10405.0  TYPE=      1  TARGET=    10405.000
 2720.000     3.37  2343.37  2343.37      .00  2343.78      .41      9.49      .01  2344.00
    791.       0.     430.     361.       0.     117.      56.       36.      20.   2344.00
     .21      .00     3.68     6.48     .000     .043     .045     .000  2340.00  9987.15
  .021962     410.     410.     410.        5       11        0      .00   226.85 10405.00


*SECNO 2780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10073.7  TYPE=      1  TARGET=    10073.700
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 *SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 2780.000     3.69  2354.49  2354.49      .00  2355.11      .62     5.54      .06  2355.80
     791.       0.     791.       0.       0.     125.       0.      37.      21. 100000.00
      .22      .00     6.33      .00     .000     .035     .000     .000  2350.80  9967.82
  .017937     280.     280.     280.        5        8        0      .00   105.88 10073.70


1490 NH CARD USED
*SECNO 2850.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10024.3  TYPE=      1  TARGET=    10024.300
 2850.000     4.81  2365.21  2365.21      .00  2366.29     1.08     4.05      .14  2364.60
    1848.     198.     1650.       0.      41.     190.       0.      39.      22. 100000.00
      .23     4.83     8.66      .00     .035     .030     .000     .000  2360.40  9914.75
  .009161     370.     370.     370.        4       11        0      .00   106.55 10021.30


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=          .0   10071.0  TYPE=      1  TARGET=    10071.000
 2970.000     5.65  2388.15  2388.15      .00  2388.83      .67     8.20      .04  2386.40
    1848.     137.     1705.       6.      24.     256.       3.      43.      24.  2387.60
      .26     5.68     6.67     1.96     .035     .035     .045     .000  2382.50  9670.63
  .019572     635.     635.     635.       20       11        0      .00   254.58 10036.28


1490 NH CARD USED
*SECNO 3090.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9908.3 10049.5 TYPE= 1 TARGET= 141.200

3090.000	4.97	2414.27	2414.27	.00	2415.57	1.30	9.39	.19	2415.40
1848.	0.	1848.	0.	0.	202.	0.	46.	27.	100000.00
.28	.00	9.14	.00	.000	.030	.000	.000	2409.30	9926.01
.010002	690.	690.	690.	3	11	0	.00	78.68	10028.68

*SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3170.000	5.45	2431.45	2431.45	.00	2432.71	1.26	4.63	.00	2432.00
2922.	0.	2901.	21.	0.	321.	14.	49.	28.	2431.00
.29	.00	9.05	1.57	.000	.035	.050	.000	2426.00	9964.54
.011739	410.	420.	430.	20	8	0	.00	156.58	10121.12

*SECNO 3290.000

3265 DIVIDED FLOW

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

3290.000	6.17	2458.27	2458.27	.00	2459.22	.95	9.69	.03	2456.80
2922.	44.	2455.	424.	11.	326.	44.	54.	30.	2452.10
.31	3.90	7.53	9.59	.045	.045	.045	.000	2452.10	9814.33
.021026	630.	630.	630.	20	8	0	.00	194.63	10014.31

*SECNO 3390.000

3265 DIVIDED FLOW

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

3390.000	6.43	2481.63	2481.63	.00	2482.77	1.15	11.99	.06	2479.30
2922.	19.	2902.	0.	4.	337.	0.	59.	33.	2481.20
.33	4.98	8.62	1.76	.045	.045	.045	.000	2475.20	9812.20
.024390	530.	530.	530.	20	8	0	.00	157.89	10033.75

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


*SECNO 3490.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     5.69  2502.39  2502.39      .00  2504.05     1.66    10.27      .15  2501.60
    2922.       2.    2885.      35.       1.     278.       8.      62.      34.   2500.30
      .34     2.11    10.39     4.18     .045     .040     .045     .000  2496.70  9931.67
  .015786     460.     530.     490.        5       15        0      .00    92.00 10023.66


*SECNO 3570.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     6.06  2520.96  2520.96      .00  2522.86     1.90     5.60      .07  2519.20
    2922.      13.    2895.      14.       4.     260.       4.      65.      35.   2519.20
      .36     3.11    11.12     3.11     .045     .035     .045     .000  2514.90  9963.39
     11424     410.     420.     380.       20        8        0      .00    76.06 10039.45


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     4.68  2539.08  2539.08      .00  2540.71     1.63     4.91      .03  2536.10
    2922.      40.    2876.       5.       9.     279.       2.      68.      36.   2537.60
      .37     4.39    10.31     2.71     .045     .035     .045     .000  2534.40  9949.46
  .011977     400.     420.     440.       20       15        0      .00    93.08 10042.54


*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
          QT VALUES ARE FROM CP G1.
 3740.000     2.42  2564.52  2564.52      .00  2565.15      .64     8.06      .10  2562.70
    1714.      70.    1626.      18.      13.     251.       4.      71.      38.   2562.70
      .39     5.23     6.47     4.94     .050     .050     .050     .000  2562.10  9818.59
  .035580     480.     480.     480.       20       11        0      .00   221.01 10039.60
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3830.000     4.59  2585.99  2585.99      .00  2587.04     1.06    12.38      .13  2583.00
    1714.      29.    1685.       0.       5.     203.       0.      73.      39.   2587.00
      .40     5.57     8.28      .00     .050     .050     .000     .000  2581.40  9929.66
  .029998     360.     380.     400.        4       17        0      .00   102.20 10031.86


*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3930.000     3.99  2613.49  2613.49      .00  2614.21      .72    16.26      .03  2613.60
    1714.       0.    1507.     207.       0.     228.      25.      76.      41.   2609.50
      .42      .00     6.61     8.11     .000     .050     .050     .000  2609.50  9907.76
  .031517     550.     530.     510.        4       12        0      .00   174.06 10088.17


*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3990.000     6.72  2629.62  2629.62      .00  2631.66     2.05     7.51      .40  2622.90
    1714.     238.    1450.      26.      30.     120.       6.      77.      41.   2627.20
      .43     7.82    12.06     4.28     .050     .045     .050     .000  2622.90  9990.95
  .018449     280.     320.     320.        3       14        0      .00    40.82 10031.78


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000    10.11  2658.51  2658.51      .00  2661.07     2.57     8.94      .16  2658.70
    1714.       0.    1714.       0.       0.     133.       0.      79.      42.   2658.30
      .44      .00    12.85      .05     .000     .045     .050     .000  2648.40  9986.30
  .025042     400.     420.     380.       20       14        0      .00    27.10 10013.40
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN        SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID       ENDST


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     6.83  2701.93  2701.93      .00  2704.37     2.44     13.75      .01  2697.90
    1714.      68.    1646.       0.      12.     129.       0.      81.      42.   2702.20
      .45     5.77    12.73      .00     .050     .045     .000     .000  2695.10  9982.85
  .019181     630.     630.     630.       20       14        0      .00    29.94 10012.79


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     5.61  2733.11  2733.11      .00  2734.97     1.86      8.47      .06  2729.60
    1714.     106.    1545.      62.      20.     136.      12.      82.      43.   2729.60
      .47     5.36    11.38     5.12     .050     .045     .050     .000  2727.50  9972.39
  .016291     470.     480.     500.       20       15        0      .00    48.53 10020.92


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     6.97  2761.07  2761.07      .00  2762.96     1.89     10.25      .01  2759.10
    1714.      14.    1610.      90.       4.     142.      18.      84.      43.   2758.00
      .48     3.55    11.32     4.90     .060     .055     .060     .000  2754.10  9980.28
  .023338     530.     530.     530.       20       11        0      .00    48.43 10028.71


*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4420.000     6.34  2775.84  2775.84      .00  2778.06     2.22      5.42      .10  2773.70
    1714.      29.    1685.       0.       7.     140.       0.      85.      43.   2775.90
      .48     4.24    12.04      .00     .060     .055     .000     .000  2769.50  9975.42
  .028729     230.     210.     200.       20       11        0      .00    35.54 10010.96
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4460.000	6.05	2789.15	2789.15	.00	2791.47	2.32	5.32	.03	2784.80
1714.	60.	1565.	90.	11.	123.	16.	86.	44.	2783.10
.49	5.24	12.69	5.43	.060	.055	.060	.000	2783.10	9983.08
.022589	190.	210.	210.	20	8	0	.00	34.47	10017.55

*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

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

4610.000	5.94	2839.34	2839.34	.00	2840.93	1.59	15.12	.07	2835.90
1714.	271.	1428.	15.	55.	131.	5.	89.	44.	2835.60
.51	4.94	10.88	3.26	.060	.050	.060	.000	2833.40	9953.21
16433	790.	790.	790.	20	8	0	.00	61.70	10014.91

*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4810.000	6.38	2895.08	2895.08	.00	2896.50	1.42	16.72	.02	2888.80
1714.	310.	1180.	224.	50.	108.	57.	94.	46.	2892.00
.54	6.21	10.95	3.90	.060	.050	.060	.000	2888.70	9936.40
.015063	1090.	1060.	1030.	20	8	0	.00	79.26	10015.66

*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

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

4990.000	9.12	2959.42	2959.42	.00	2962.19	2.78	15.36	.41	2952.70
1714.	145.	1337.	231.	24.	91.	35.	98.	47.	2952.50
.56	5.96	14.76	6.58	.060	.050	.060	.000	2950.30	9992.75
.017401	930.	950.	970.	20	11	0	.00	28.82	10021.57

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


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     8.06  3050.76  3050.76      .00  3053.25     2.49    15.86      .03  3043.90
    1714.     258.    1402.      54.      40.     102.      13.     101.      48.   3044.90
      .58     6.49    13.70     4.26     .060     .050     .060     .000  3042.70  9982.89
  .016003     970.     950.     930.       20       11        0      .00    32.28 10015.17


*SECNO 5350.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.39  3165.69  3165.69      .00  3166.63      .94    22.45      .16  3165.40
    1714.       0.    1483.     231.       0.     191.      30.     105.      50.   3161.40
      .62     1.31     7.77     7.82     .060     .055     .060     .000  3161.30  9906.72
  .038366     960.     950.     940.       20       11        0      .00   121.69 10030.37


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5510.000     5.09  3275.19  3275.19      .00  3277.12     1.93    23.31      .30  3270.60
    1714.     109.    1433.     172.      19.     121.      28.     109.      51.   3270.20
      .64     5.72    11.89     6.21     .060     .050     .060     .000  3270.10  9988.70
  .020996     840.     840.     840.       20        8        0      .00    45.57 10034.28


*SECNO 5610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5610.000	5.31	3330.11	3330.11	.00	3331.55	1.44	11.58	.05	3327.20
1714.	501.	884.	330.	68.	77.	51.	111.	52.	3326.70
.66	7.41	11.53	6.53	.060	.050	.060	.000	3324.80	9956.45
.022797	520.	530.	540.	20	8	0	.00	68.73	10025.18

TW WEIR BETWEEN STAS 3.09 AND 3.17

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1073.86	1072.41	.13	1073.86	1072.41	.13	6	2414.271	2431.448	3090.000	3170.000

TW WEIR BETWEEN STAS 2.72 AND 2.85

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1056.88	1057.42	.05	2130.74	2129.83	.04	6	2343.371	2365.212	2720.000	2850.000

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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   500-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH          (OCSPLIT.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             5                       .01                             2165.75

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN .    ALLDC   IBW     CHNIM   ITRACE

    15               -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1710.000

3265 DIVIDED FLOW

         ******STREAM REACH DISTANCES REVISED 9-25-90 AS PER OCEAST.DAT*****
         THIS MODEL CONTAINS TWO WEIRS TO ESTIMATE BREAKOUT FLOW FOR THE WEST
         BRAID. ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-1 MODEL (CCTRIB.OUT).
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
 1710.000     6.23  2208.13  2207.96  2165.75  2209.47     1.34      .00      .00  2201.90
    5109.     327.    4679.     103.      52.     490.      22.       0.       0.   2205.10
      .00     6.32     9.54     4.58     .045     .035     .045     .000  2201.90  9897.76
  .010041       0.       0.       0.        0       23        0      .00   204.51 10149.86


*SECNO 1830.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     6.31  2221.61  2221.61      .00  2223.26     1.65     7.64      .09  2215.30
    5109.      36.    4959.     114.      11.     475.      33.       9.       3.   2219.30
      .02     3.34    10.44     3.48     .045     .035     .045     .000  2215.30  9977.76
  .010789     640.     740.     650.        4        5        0      .00   172.58 10190.38


*SECNO 2030.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.99  2244.99  2244.99      .00  2246.29     1.31    14.87      .03  2241.30
    5109.     153.    4827.     129.      27.     516.      27.      23.       8.   2242.30
      .05     5.73     9.35     4.71     .050     .040     .050     .000  2241.00  9859.72
  .017145    1070.    1110.    1060.        3       14        0      .00   228.17 10087.89


*SECNO 2070.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     4.85  2250.35  2250.35      .00  2252.04     1.68     2.18      .11  2246.50
    5109.     200.    4896.      13.      38.     462.       4.      25.       9.   2248.50
      .06     5.31    10.59     3.14     .045     .035     .045     .000  2245.50  9923.94
  .011082     160.     160.     160.       20       11        0      .00   150.09 10074.02


1490 NH CARD USED
*SECNO 2170.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .32

3470 ENCROACHMENT STATIONS=         .0   10390.0  TYPE=      1  TARGET=    10390.000
 2170.000     3.43  2258.73      .00      .00  2259.19      .47     7.03      .12  2256.60
    2250.      35.    2176.      39.       6.     395.      10.      30.      12.   2257.40
      .08     5.76     5.51     3.73     .035     .042     .045     .000  2255.30  9931.80
  .021628     520.     530.     480.        8        0        0      .00   380.51 10370.86


1490 NH CARD USED
*SECNO 2260.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10022.5  TYPE=      1  TARGET=    10022.500
 2260.000     4.00  2270.80  2270.80      .00  2272.01     1.21     7.49      .22  2268.20
    2250.     123.    2068.      59.      32.     228.      10.      34.      15.   2266.80
      .10     3.89     9.08     6.15     .039     .035     .035     .000  2266.80  9703.66
  .011802     470.     480.     480.        3       11        0      .00   123.49 10015.41
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10126.1  TYPE=      1  TARGET=    10126.100
 2310.000     2.82  2276.02  2276.02      .00  2276.99      .97     2.93      .02  2276.00
    2250.       0.    2231.      19.       0.     281.       5.      36.      16.   2273.60
      .11      .05     7.94     4.08     .035     .035     .045     .000  2273.20  9962.92
  .014741     323.     220.     210.        3       19        0      .00   151.05 10113.97


1490 NH CARD USED
*SECNO 2400.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=        .0   10033.3  TYPE=      1  TARGET=    10033.300
         QT VALUES ARE FROM CP 35A.
 2400.000     3.13  2288.53  2288.53      .00  2289.08      .55     5.28      .04  2287.30
     808.      30.     775.       3.       8.     128.       1.      37.      17.   2287.60
      .12     3.65     6.05     3.66     .045     .041     .035     .000  2285.40  9765.33
  .023420     320.     320.     320.       20        8        0      .00   126.24 10016.92


1490 NH CARD USED
*SECNO 2470.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10061.2  TYPE=      1  TARGET=    10061.200
 2470.000     2.55  2299.55  2299.55      .00  2300.15      .60     6.57      .01  2301.00
     808.       0.     801.       7.       0.     129.       2.      38.      17.   2297.00
      .14      .00     6.22     4.03     .000     .035     .035     .000  2297.00  9943.89
  .018137     320.     320.     320.        4       15        0      .00   114.55 10058.44


1490 NH CARD USED
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10273.5  TYPE=      1  TARGET=    10273.500
 2580.000     4.32  2316.22  2316.22      .00  2316.89      .67     11.44      .02  2317.00
     808.       0.     808.       0.       0.     123.       0.       40.      19.   2318.70
      .16      .00     6.57      .00     .000     .040     .000     .000  2311.90  9986.81
  .021546     580.     580.     580.        7       17        0      .00    91.42 10130.88


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10224.2  TYPE=      1  TARGET=    10224.200
 2650.000     2.99  2328.99  2328.99      .00  2329.55      .56      8.45      .01  2326.00
     808.      54.     754.       0.       8.     127.       0.       41.      20.   2332.00
      .18     6.90     5.95      .00     .040     .040     .000     .000  2326.00  9898.12
  .024275     370.     370.     370.        4       19        0      .00   125.56 10106.97


1490 NH CARD USED
*SECNO 2720.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10405.0  TYPE=      1  TARGET=    10405.000
 2720.000     3.39  2343.39  2343.39      .00  2343.80      .41      9.44      .02  2344.00
     808.       0.     443.     365.       0.     120.      56.       42.      21.   2344.00
      .20      .00     3.69     6.49     .000     .043     .045     .000  2340.00  9987.02
  .021884     410.     410.     410.        4       11        0      .00   230.52 10405.00
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10073.7  TYPE=      1  TARGET=    10073.700
 2780.000     3.70  2354.50  2354.50      .00  2355.13      .63     5.53      .07  2355.80
     808.       0.     808.       0.       0.     127.       0.      43.      23. 100000.00
      .21      .00     6.37      .00     .000     .035     .000     .000  2350.80  9967.73
  .017895     280.     280.     280.        4        8        0      .00   105.97 10073.70


1490 NH CARD USED
*SECNO 2850.000
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=        .0   10024.3  TYPE=      1  TARGET=    10024.300
 2850.000     5.02  2365.42  2365.42      .00  2366.57     1.14     3.89      .15  2364.60
    2094.     250.    1844.       0.      48.     206.       0.      45.      23. 100000.00
      .23     5.24     8.94      .00     .035     .030     .000     .000  2360.40  9914.42
  .008861     370.     370.     370.        5       11        0      .00   107.37 10021.79


1490 NH CARD USED
*SECNO 2970.000

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS=        .0   10071.0  TYPE=      1  TARGET=    10071.000
 2970.000     5.85  2388.35  2388.35      .00  2388.97      .62     7.39      .05  2386.40
    2094.     171.    1911.      11.      30.     299.       5.      49.      26.   2387.60
      .25     5.62     6.40     2.16     .035     .035     .045     .000  2382.50  9665.08
  .015935     635.     635.     635.      20       12        0      .00   277.66 10039.92
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 3090.000
1530 MANNINGS N VALUES FOR CHANNEL COMPOSITED

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

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

3470 ENCROACHMENT STATIONS=     9908.3   10049.5  TYPE=      1  TARGET=      141.200
 3090.000     5.31  2414.61  2414.61      .00  2415.88     1.27     8.57      .20  2415.40
    2094.       0.    2094.       0.       0.     231.       0.      54.      29. 100000.00
      .28      .00     9.05      .00     .000     .030     .000     .000  2409.30  9920.63
  .009958     690.     690.     690.       20        8        0      .00    91.13 10029.47


SECNO 3170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3170.000     5.92  2431.92  2431.92      .00  2433.30     1.38     4.40      .03  2432.00
    3667.       0.    3578.      89.       0.     376.      34.      57.      30.   2431.00
      .29      .00     9.53     2.60     .000     .035     .050     .000  2426.00  9962.37
  .010795     410.     420.     430.       20        8        0      .00   164.71 10127.08


*SECNO 3290.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3290.000     6.47  2458.57  2458.57      .00  2459.68     1.12     9.40      .03  2456.80
    3667.      73.    3105.     490.      16.     375.      48.      63.      33.   2452.10
      .31     4.49     8.27    10.11     .045     .045     .045     .000  2452.10  9811.30
  .021956     630.     630.     630.       20        8        0      .00   203.68 10014.99


*SECNO 3390.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3390.000     6.86  2482.06  2482.06      .00  2483.29     1.23    12.06      .03  2479.30
    3667.      30.    3635.       3.       5.     407.       1.      68.      35.   2481.20
      .32     5.50     8.92     2.77     .045     .045     .045     .000  2475.20  9811.59
  .023603     530.     530.     530.        7        8        0      .00   178.39 10034.93


*SECNO 3490.000

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3490.000     6.25  2502.95  2502.95      .00  2504.84     1.89     9.73      .20  2501.60
    3667.       6.    3597.      64.       2.     324.      14.      73.      37.   2500.30
      .34     2.92    11.11     4.73     .045     .040     .045     .000  2496.70  9930.37
  .014709     460.     530.     490.        7       11        0      .00    95.46 10025.82


*SECNO 3570.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3570.000     6.70  2521.60  2521.60      .00  2523.77     2.17     5.22      .08  2519.20
    3667.      30.    3607.      30.       8.     303.       8.      76.      38.   2519.20
      .35     3.70    11.90     3.71     .045     .035     .045     .000  2514.90  9961.59
  .010684     410.     420.     380.       20        8        0      .00    79.68 10041.27


*SECNO 3650.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 3650.000     5.21  2539.61  2539.61      .00  2541.49     1.88     4.62      .03  2536.10
    3667.      61.    3594.      12.      13.     324.       4.      79.      39.   2537.60
      .36     4.77    11.09     3.24     .045     .035     .045     .000  2534.40  9948.35
  .011357     400.     420.     440.       20       15        0      .00    95.18 10043.53
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3740.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
QT VALUES ARE FROM CP G1.

3740.000	2.60	2564.70	2564.70	.00	2565.42	.72	7.56	.12	2562.70
2099.	88.	1989.	23.	16.	289.	4.	83.	40.	2562.70
.38	5.39	6.87	5.09	.050	.050	.050	.000	2562.10	9817.06
.033198	480.	480.	480.	20	8	0	.00	222.95	10040.02

*SECNO 3830.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3830.000	4.90	2586.30	2586.30	.00	2587.48	1.18	11.84	.14	2583.00
2099.	37.	2062.	0.	6.	235.	0.	85.	42.	2587.00
.39	5.90	8.76	.00	.050	.050	.000	.000	2581.40	9929.30
.029364	360.	380.	400.	3	17	0	.00	107.07	10036.38

*SECNO 3930.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3930.000	4.23	2613.73	2613.73	.00	2614.52	.79	15.62	.04	2613.60
2099.	0.	1864.	235.	0.	268.	29.	88.	44.	2609.50
.41	.05	6.97	8.18	.050	.050	.050	.000	2609.50	9904.04
.029687	550.	530.	510.	7	10	0	.00	181.56	10088.94

*SECNO 3990.000

3301 HV CHANGED MORE THAN HVINS

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

3990.000	7.33	2630.23	2630.23	.00	2632.53	2.31	7.16	.46	2622.90
2099.	294.	1758.	47.	36.	137.	10.	90.	44.	2627.20
.42	8.13	12.87	4.87	.050	.045	.050	.000	2622.90	9990.13
7727	280.	320.	320.	20	17	0	.00	42.93	10033.06

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


*SECNO 4070.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4070.000    10.86  2659.26  2659.26      .00  2662.15     2.88     8.53      .17  2658.70
    2099.       0.     2096.       2.       0.     154.       1.      92.      45.   2658.30
      .43     1.72     13.64     2.60     .050     .045     .050     .000  2648.40  9985.10
  .023727     400.      420.     380.       20       14        0      .00    29.76 10014.87


*SECNO 4190.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4190.000     7.57  2702.67  2702.67      .00  2705.40     2.73    13.15      .02  2697.90
    2099.     105.     1994.       0.      17.     147.       0.      94.      45.   2702.20
      .44     6.34     13.53     1.49     .050     .045     .050     .000  2695.10  9981.77
  .018501     630.      630.     630.       20       19        0      .00    32.64 10014.41


*SECNO 4280.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4280.000     6.20  2733.70  2733.70      .00  2735.75     2.05     8.12      .07  2729.60
    2099.     157.     1851.      92.      27.     153.      17.      96.      46.   2729.60
      .45     5.79     12.06     5.53     .050     .045     .050     .000  2727.50  9970.51
  .015532     470.      480.     500.       20       15        0      .00    51.56 10022.07


*SECNO 4380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4380.000     7.60  2761.70  2761.70      .00  2763.74     2.04     9.69      .00  2759.10
    2099.      30.     1913.     155.       7.     161.      29.      98.      46.   2758.00
      .47     4.55     11.89     5.32     .060     .055     .060     .000  2754.10  9979.21
  .021816     530.      530.     530.       20       11        0      .00    53.69 10032.89
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 4420.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4420.000	7.05	2776.55	2776.55	.00	2778.99	2.44	5.05	.12	2773.70
2099.	59.	2040.	1.	12.	161.	0.	99.	47.	2775.90
.47	4.93	12.69	1.70	.060	.055	.060	.000	2769.50	9973.35
.026596	230.	210.	200.	20	11	0	.00	38.65	10011.99

*SECNO 4460.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4460.000	6.79	2789.89	2789.89	.00	2792.47	2.58	5.00	.04	2784.80
2099.	88.	1881.	130.	16.	140.	22.	100.	47.	2783.10
.47	5.68	13.47	5.86	.060	.055	.060	.000	2783.10	9982.20
.021560	190.	210.	210.	20	8	0	.00	36.53	10018.73

*SECNO 4610.000

3301 HV CHANGED MORE THAN HVINS

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

4610.000	6.45	2839.85	2839.85	.00	2841.60	1.75	14.73	.08	2835.90
2099.	402.	1676.	21.	73.	145.	6.	104.	48.	2835.60
.50	5.53	11.57	3.53	.060	.050	.060	.000	2833.40	9947.93
.016293	790.	790.	790.	20	11	0	.00	67.32	10015.25

*SECNO 4810.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

4810.000	6.82	2895.52	2895.52	.00	2897.08	1.56	16.83	.02	2888.80
2099.	377.	1366.	356.	57.	117.	77.	110.	50.	2892.00
.53	6.57	11.69	4.63	.060	.050	.060	.000	2888.70	9935.26
.015401	1090.	1060.	1030.	20	8	0	.00	80.98	10016.25

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


*SECNO 4990.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 4990.000    10.00  2960.30  2960.30     .00  2963.37     3.07    15.44      .45  2952.70
    2099.     200.    1582.     316.     31.     101.      45.     114.      51.   2952.50
      .55     6.43    15.72     7.08    .060     .050     .060     .000  2950.30  9991.79
  .017167     930.     950.     970.      20       14        0      .00    31.06 10022.86


*SECNO 5170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5170.000     8.88  3051.58  3051.58     .00  3054.29     2.71    15.46      .04  3043.90
    2099.     363.    1650.      86.     50.     114.      19.     118.      51.   3044.90
      .57     7.26    14.47     4.62    .060     .050     .060     .000  3042.70  9981.45
  .015431     970.     950.     930.      20       11        0      .00    35.57 10017.02


*SECNO 5350.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 5350.000     4.64  3165.94  3165.94     .00  3167.02     1.08    21.92      .16  3165.40
    2099.       1.    1829.     269.      1.     218.      33.     123.      53.   3161.40
      .60     1.99     8.37     8.11    .060     .055     .060     .000  3161.30  9905.78
  .038193     960.     950.     940.      20       11        0      .00   125.41 10031.19


*SECNO 5510.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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*SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5510.000	5.68	3275.78	3275.78	.00	3277.95	2.17	22.87	.33	3270.60
2099.	148.	1724.	227.	24.	136.	35.	127.	55.	3270.20
.62	6.10	12.68	6.59	.060	.050	.060	.000	3270.10	9987.65
.020378	840.	840.	840.	20	11	0	.00	47.93	10035.57

*SECNO 5610.000

3301 HV CHANGED MORE THAN HVINS

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

5610.000	5.79	3330.59	3330.59	.00	3332.15	1.56	11.14	.06	3327.20
2099.	628.	1032.	439.	80.	85.	63.	130.	56.	3326.70
.63	7.83	12.09	6.93	.060	.050	.060	.000	3324.80	9954.96
.021722	520.	530.	540.	20	5	0	.00	72.81	10027.77

TW WEIR BETWEEN STAS 3.09 AND 3.17

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1573.46	1571.83	.10	1573.46	1571.83	.10	6	2414.614	2431.920	3090.000	3170.000

TW WEIR BETWEEN STAS 2.72 AND 2.85

ASQ	QCOMP	ERRAC	TASQ	TCQ	TABER	NITER	DSWS	USWS	DSSNO	USSNO
1285.39	1280.46	.38	2858.85	2852.29	.23	6	2343.387	2365.422	2720.000	2850.000

THIS RUN EXECUTED 9/25/90 10:24:43

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1710.000	2206.84	2274.00	4.94	5.72	6.90	2.97	165.74	2086.25	22.01	166.09	100.24	.00
	1710.000	2207.42	3445.00	5.52	6.20	8.19	3.62	224.60	3172.48	47.92	170.34	101.57	.00
	1710.000	2207.70	4047.00	5.80	6.37	8.70	3.88	254.75	3727.60	64.65	172.42	100.11	.00
	1710.000	2208.13	5109.00	6.23	6.32	9.54	4.58	327.23	4678.88	102.89	204.51	100.41	.00
*	1830.000	2220.14	2274.00	4.84	3.43	7.95	1.87	16.06	2252.59	5.34	140.48	124.51	13.30
*	1830.000	2220.69	3445.00	5.39	3.82	9.56	2.69	22.18	3395.87	26.95	149.42	133.41	13.27
*	1830.000	2221.03	4047.00	5.73	3.82	9.94	3.02	25.12	3970.95	50.93	154.94	123.29	13.33
*	1830.000	2221.61	5109.00	6.31	3.34	10.44	3.48	36.29	4958.64	114.07	172.58	107.89	13.49
*	2030.000	2243.88	2274.00	2.88	4.90	7.22	3.58	63.73	2176.56	33.72	210.36	201.96	23.74
*	2030.000	2244.37	3445.00	3.37	5.33	8.25	4.16	98.75	3278.44	67.81	221.09	189.20	23.68
*	2030.000	2244.61	4047.00	3.61	5.48	8.68	4.37	117.58	3841.11	88.31	223.79	181.21	23.58
*	2030.000	2244.99	5109.00	3.99	5.73	9.35	4.71	152.90	4827.05	129.05	228.17	171.45	23.37
*	2070.000	2248.75	2274.00	3.25	4.13	8.42	.04	53.24	2220.75	.00	130.66	136.57	4.88
*	2070.000	2249.47	3445.00	3.97	4.81	9.50	2.19	107.65	3334.83	2.52	143.15	128.32	5.10
*	2070.000	2249.78	4047.00	4.28	5.05	10.00	2.59	138.05	3903.74	5.21	145.79	123.82	5.18
*	2070.000	2250.35	5109.00	4.85	5.31	10.59	3.14	200.32	4895.53	13.15	150.09	110.82	5.37
*	2170.000	2258.15	1335.77	2.85	5.21	5.55	2.61	14.87	1312.47	8.43	238.37	237.62	9.39
*	2170.000	2258.38	1719.14	3.08	5.38	5.67	3.01	21.11	1680.61	17.43	273.48	215.21	8.91
*	2170.000	2258.51	1916.26	3.21	5.39	5.72	3.17	24.51	1868.89	22.86	289.74	206.20	8.72
*	2170.000	2258.73	2250.15	3.43	5.76	5.51	3.73	34.72	2176.47	38.95	380.51	216.28	8.37
*	2260.000	2270.01	1335.77	3.21	3.56	7.80	5.71	34.97	1265.42	35.38	104.65	136.86	11.86
*	2260.000	2270.38	1719.14	3.58	3.62	8.35	5.86	65.64	1608.36	45.14	113.40	124.68	11.99
*	2260.000	2270.53	1916.26	3.73	3.73	8.68	6.01	83.96	1781.99	50.32	117.01	123.97	12.03
*	2260.000	2270.80	2250.15	4.00	3.89	9.08	6.15	122.78	2068.09	59.27	123.49	118.02	12.08
*	2310.000	2275.42	1335.77	2.22	.00	6.81	3.55	.00	1326.39	9.38	141.70	163.69	5.41
*	2310.000	2275.68	1719.14	2.48	.00	7.34	3.80	.00	1705.96	13.18	145.75	155.82	5.30
*	2310.000	2275.81	1916.26	2.61	.00	7.57	3.90	.00	1900.95	15.31	147.72	152.14	5.28
*	2310.000	2276.02	2250.15	2.82	.05	7.94	4.08	.00	2231.06	19.09	151.05	147.41	5.21

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2400.000	2288.41	713.77	3.01	3.48	6.00	3.41	22.96	688.41	2.40	118.19	245.98	12.99
*	2400.000	2288.48	773.14	3.08	3.59	6.04	3.57	27.14	742.98	3.02	123.21	239.50	12.80
*	2400.000	2288.49	791.26	3.09	3.66	6.13	3.64	28.05	760.07	3.14	123.80	245.53	12.68
*	2400.000	2288.53	808.15	3.13	3.65	6.05	3.66	29.77	774.94	3.43	126.24	234.20	12.51
*	2470.000	2299.45	713.77	2.45	.00	6.01	3.98	.00	707.49	6.28	112.62	186.49	11.04
*	2470.000	2299.51	773.14	2.51	.00	6.15	4.02	.00	766.48	6.66	113.84	183.39	11.03
*	2470.000	2299.53	791.26	2.53	.00	6.18	4.02	.00	784.49	6.78	114.23	181.65	11.04
*	2470.000	2299.55	808.15	2.55	.00	6.22	4.03	.00	801.26	6.88	114.55	181.37	11.02
*	2580.000	2316.05	713.77	4.15	.00	6.64	.00	.00	713.77	.00	85.41	240.79	16.60
*	2580.000	2316.13	773.14	4.23	.00	6.74	.00	.00	773.14	.00	88.25	237.69	16.62
*	2580.000	2316.20	791.26	4.30	.00	6.54	.00	.00	791.26	.00	90.70	215.46	16.67
*	2580.000	2316.22	808.15	4.32	.00	6.57	.00	.00	808.14	.00	91.42	215.46	16.68
*	2650.000	2328.88	713.77	2.88	6.77	5.82	.00	49.74	664.03	.00	118.32	245.60	12.84
*	2650.000	2328.95	773.14	2.95	6.85	5.90	.00	52.72	720.42	.00	122.99	243.38	12.82
*	2650.000	2328.97	791.26	2.97	6.89	5.94	.00	53.66	737.60	.00	124.20	244.17	12.77
*	2650.000	2328.99	808.15	2.99	6.90	5.95	.00	54.48	753.67	.00	125.56	242.75	12.77
*	2720.000	2343.29	713.77	3.29	.00	3.62	6.47	.00	370.13	343.64	209.33	226.25	14.41
*	2720.000	2343.35	773.14	3.35	.00	3.66	6.47	.00	416.22	356.92	222.73	220.76	14.40
*	2720.000	2343.37	791.26	3.37	.00	3.68	6.48	.00	430.20	361.06	226.85	219.62	14.40
*	2720.000	2343.39	808.15	3.39	.00	3.69	6.49	.00	443.19	364.95	230.52	218.84	14.40
*	2780.000	2354.41	713.77	3.61	.00	6.12	.00	.00	713.77	.00	105.45	182.75	11.12
*	2780.000	2354.47	773.14	3.67	.00	6.28	.00	.00	773.14	.00	105.77	180.49	11.11
*	2780.000	2354.49	791.26	3.69	.00	6.33	.00	.00	791.26	.00	105.88	179.37	11.12
*	2780.000	2354.50	808.15	3.70	.00	6.37	.00	.00	808.14	.00	105.97	178.95	11.12
*	2850.000	2364.78	1367.19	4.38	3.83	7.96	.00	104.66	1262.53	.00	104.88	96.92	10.37
*	2850.000	2365.09	1710.33	4.69	4.58	8.49	.00	169.83	1540.50	.00	106.08	93.37	10.62
*	2850.000	2365.21	1848.14	4.81	4.83	8.66	.00	197.92	1650.21	.00	106.55	91.61	10.73
*	2850.000	2365.42	2093.54	5.02	5.24	8.94	.00	249.75	1843.79	.00	107.37	88.61	10.92
*	2970.000	2387.98	1367.19	5.48	4.68	5.80	1.41	91.23	1274.06	1.90	233.77	167.05	23.20
*	2970.000	2388.10	1710.33	5.60	5.43	6.46	1.81	123.20	1582.84	4.28	248.58	190.09	23.01
*	2970.000	2388.15	1848.14	5.65	5.68	6.67	1.96	137.07	1705.46	5.61	254.58	195.72	22.94
*	2970.000	2388.35	2093.54	5.85	5.62	6.40	2.16	170.78	1911.48	11.28	277.66	159.35	22.92
*	3090.000	2413.53	1367.19	4.23	.00	8.97	.00	.00	1367.19	.00	60.63	99.25	25.55
*	3090.000	2414.05	1710.33	4.75	.00	9.21	.00	.00	1710.33	.00	70.65	98.69	25.95
*	3090.000	2414.27	1848.14	4.97	.00	9.14	.00	.00	1848.14	.00	78.68	100.02	26.12
*	3090.000	2414.61	2093.54	5.31	.00	9.05	.00	.00	2093.54	.00	91.13	99.58	26.27
*	3170.000	2430.34	1652.00	4.34	.00	8.28	.00	.00	1652.00	.00	96.60	145.76	16.81
*	3170.000	2431.12	2499.00	5.12	.00	8.84	.51	.00	2498.34	.66	136.07	130.22	17.07
*	3170.000	2431.45	2922.00	5.45	.00	9.05	1.57	.00	2900.67	21.33	156.58	117.39	17.18
*	3170.000	2431.92	3667.00	5.92	.00	9.53	2.60	.00	3577.57	89.42	164.71	107.95	17.31

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	3290.000	2457.50	1652.00	5.40	2.56	6.45	9.46	6.49	1325.81	319.69	166.47	244.71	27.17
*	3290.000	2457.98	2499.00	5.88	3.59	7.47	9.95	25.74	2075.39	397.88	183.79	241.50	26.86
*	3290.000	2458.27	2922.00	6.17	3.90	7.53	9.59	43.85	2454.54	423.61	194.63	210.26	26.83
*	3290.000	2458.57	3667.00	6.47	4.49	8.27	10.11	72.63	3104.56	489.81	203.68	219.56	26.65
*	3390.000	2480.64	1652.00	5.44	3.45	7.93	.00	4.39	1647.61	.00	108.89	244.66	23.14
*	3390.000	2481.34	2499.00	6.14	4.59	8.41	.05	13.61	2485.38	.00	143.62	246.19	23.37
*	3390.000	2481.63	2922.00	6.43	4.98	8.62	1.76	19.12	2902.45	.43	157.89	243.90	23.35
*	3390.000	2482.06	3667.00	6.86	5.50	8.92	2.77	29.67	3634.57	2.76	178.39	236.03	23.49
*	3490.000	2501.17	1652.00	4.47	.00	9.08	2.44	.00	1648.47	3.53	74.40	174.61	20.53
*	3490.000	2502.06	2499.00	5.36	1.48	9.90	3.77	.36	2476.22	22.42	88.86	161.71	20.71
*	3490.000	2502.39	2922.00	5.69	2.11	10.39	4.18	1.54	2885.14	35.32	92.00	157.86	20.77
*	3490.000	2502.95	3667.00	6.25	2.92	11.11	4.73	6.18	3596.62	64.20	95.46	147.09	20.90
*	3570.000	2519.57	1652.00	4.67	1.19	9.61	1.19	.23	1651.54	.23	63.14	131.93	18.41
*	3570.000	2520.55	2499.00	5.65	2.65	10.63	2.65	6.77	2485.39	6.84	72.75	117.89	18.49
*	3570.000	2520.96	2922.00	6.06	3.11	11.12	3.11	13.39	2895.09	13.52	76.06	114.24	18.56
*	3570.000	2521.60	3667.00	6.70	3.70	11.90	3.71	29.84	3607.01	30.15	79.68	106.84	18.65
*	3650.000	2538.03	1652.00	3.63	3.53	8.60	1.27	13.51	1638.27	.21	88.96	138.52	18.45
*	3650.000	2538.75	2499.00	4.35	4.14	9.81	2.34	29.97	2466.17	2.86	91.79	124.71	18.20
*	3650.000	2539.08	2922.00	4.68	4.39	10.31	2.71	40.13	2876.39	5.48	93.08	119.77	18.12
*	3650.000	2539.61	3667.00	5.21	4.77	11.09	3.24	60.71	3594.12	12.17	95.18	113.57	18.01
*	3740.000	2564.15	1029.00	2.05	4.83	5.51	4.56	41.17	977.25	10.57	217.25	409.20	26.13
*	3740.000	2564.41	1494.00	2.31	5.09	6.18	4.81	60.16	1418.39	15.45	219.90	365.94	25.66
*	3740.000	2564.52	1714.00	2.42	5.23	6.47	4.94	69.80	1626.27	17.93	221.01	355.80	25.44
*	3740.000	2564.70	2099.00	2.60	5.39	6.87	5.09	87.77	1988.68	22.54	222.95	331.98	25.09
*	3830.000	2585.30	1029.00	3.90	4.95	7.29	.00	15.08	1013.92	.00	91.58	335.65	21.15
*	3830.000	2585.78	1494.00	4.38	5.41	8.03	.00	24.00	1470.00	.00	98.96	311.15	21.37
*	3830.000	2585.99	1714.00	4.59	5.57	8.28	.00	28.60	1685.40	.00	102.20	299.98	21.47
*	3830.000	2586.30	2099.00	4.90	5.90	8.76	.00	36.95	2062.05	.00	107.07	293.64	21.60
*	3930.000	2612.78	1029.00	3.28	.00	6.93	7.41	.00	901.63	127.37	101.50	341.76	27.48
*	3930.000	2613.38	1494.00	3.88	.00	6.21	7.74	.00	1307.40	186.59	169.18	297.51	27.61
*	3930.000	2613.49	1714.00	3.99	.00	6.61	8.11	.00	1507.18	206.81	174.06	315.17	27.51
*	3930.000	2613.73	2099.00	4.23	.05	6.97	8.18	.00	1864.48	234.52	181.56	296.87	27.43
*	3990.000	2628.28	1029.00	5.38	7.36	10.41	2.73	143.74	881.88	3.38	36.23	219.54	15.50
*	3990.000	2629.21	1494.00	6.31	7.71	11.63	3.88	206.41	1271.18	16.41	39.41	194.92	15.82
*	3990.000	2629.62	1714.00	6.72	7.82	12.06	4.28	237.58	1450.19	26.22	40.82	184.49	16.12
*	3990.000	2630.23	2099.00	7.33	8.13	12.87	4.87	293.92	1758.11	46.96	42.93	177.27	16.49
*	4070.000	2656.67	1029.00	8.27	.00	11.61	.00	.00	1029.00	.00	21.82	270.73	28.38
*	4070.000	2657.98	1494.00	9.58	.00	12.48	.00	.00	1494.00	.00	25.40	256.30	28.78
*	4070.000	2658.51	1714.00	10.11	.00	12.85	.05	.00	1714.00	.00	27.10	250.42	28.89
*	4070.000	2659.26	2099.00	10.86	1.72	13.64	2.60	.38	2096.29	2.33	29.76	237.27	29.03

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	4190.000	2700.29	1029.00	5.19	4.28	11.13	.00	17.78	1011.22	.00	26.28	211.23	43.62
*	4190.000	2701.44	1494.00	6.34	5.36	12.29	.00	48.78	1445.22	.00	28.85	196.96	43.46
*	4190.000	2701.93	1714.00	6.83	5.77	12.73	.00	68.05	1645.95	.00	29.94	191.81	43.42
*	4190.000	2702.67	2099.00	7.57	6.34	13.53	1.49	104.99	1993.51	.50	32.64	185.01	43.41
*	4280.000	2731.89	1029.00	4.39	4.30	9.84	4.11	36.31	971.46	21.23	42.18	186.33	31.60
*	4280.000	2732.75	1494.00	5.25	5.07	10.95	4.84	80.87	1365.85	47.28	46.64	168.69	31.31
*	4280.000	2733.11	1714.00	5.61	5.36	11.38	5.12	106.34	1545.47	62.18	48.53	162.91	31.18
*	4280.000	2733.70	2099.00	6.20	5.79	12.06	5.53	156.51	1850.98	91.51	51.56	155.32	31.02
*	4380.000	2759.64	1029.00	5.54	1.67	10.13	3.81	.49	1013.72	14.78	36.20	298.74	27.75
*	4380.000	2760.63	1494.00	6.53	3.06	11.04	4.65	7.19	1428.41	58.40	44.71	252.16	27.88
*	4380.000	2761.07	1714.00	6.97	3.55	11.32	4.90	13.77	1609.97	90.26	48.43	233.38	27.96
*	4380.000	2761.70	2099.00	7.60	4.55	11.89	5.32	30.48	1913.18	155.34	53.69	218.16	28.00
*	4420.000	2774.38	1029.00	4.88	2.10	10.50	.00	1.43	1027.57	.00	30.22	326.19	14.74
*	4420.000	2775.42	1494.00	5.92	3.70	11.60	.00	15.96	1478.04	.00	33.98	295.36	14.78
*	4420.000	2775.84	1714.00	6.34	4.24	12.04	.00	28.55	1685.45	.00	35.54	287.29	14.78
*	4420.000	2776.55	2099.00	7.05	4.93	12.69	1.70	58.83	2039.62	.55	38.65	265.96	14.85
*	4460.000	2787.59	1029.00	4.49	4.21	11.00	4.50	19.73	975.68	33.59	30.11	262.96	13.21
*	4460.000	2788.67	1494.00	5.57	4.98	12.27	5.18	44.65	1380.66	68.69	33.11	238.42	13.25
*	4460.000	2789.15	1714.00	6.05	5.24	12.69	5.43	59.56	1564.92	89.52	34.47	225.89	13.31
*	4460.000	2789.89	2099.00	6.79	5.68	13.47	5.86	88.25	1881.07	129.68	36.53	215.60	13.33
*	4610.000	2838.03	1029.00	4.63	3.66	9.84	2.72	76.65	946.98	5.37	48.00	203.14	50.43
*	4610.000	2839.00	1494.00	5.60	4.51	10.47	3.09	201.09	1280.92	11.99	58.02	167.18	50.34
*	4610.000	2839.34	1714.00	5.94	4.94	10.88	3.26	271.06	1427.69	15.25	61.70	164.33	50.18
*	4610.000	2839.85	2099.00	6.45	5.53	11.57	3.53	401.93	1675.71	21.36	67.32	162.93	49.96
*	4810.000	2893.65	1029.00	4.95	6.10	10.37	2.68	181.65	817.48	29.87	50.67	205.15	55.62
*	4810.000	2894.78	1494.00	6.08	5.99	10.50	3.44	271.28	1068.79	153.92	78.12	149.50	55.78
*	4810.000	2895.08	1714.00	6.38	6.21	10.95	3.90	309.70	1180.30	224.01	79.26	150.63	55.74
*	4810.000	2895.52	2099.00	6.82	6.57	11.69	4.63	376.54	1366.49	355.97	80.98	154.01	55.68
*	4990.000	2957.44	1029.00	7.14	4.96	12.80	5.52	60.01	870.24	98.75	23.77	191.67	63.79
*	4990.000	2958.83	1494.00	8.53	5.69	14.23	6.29	115.39	1193.41	185.21	27.32	179.09	64.05
*	4990.000	2959.42	1714.00	9.12	5.96	14.76	6.58	145.25	1337.33	231.42	28.82	174.01	64.34
*	4990.000	2960.30	2099.00	10.00	6.43	15.72	7.08	200.32	1582.36	316.32	31.06	171.67	64.77
*	5170.000	3048.70	1029.00	6.00	5.77	12.39	3.46	112.22	902.17	14.60	24.64	206.06	91.26
*	5170.000	3050.02	1494.00	7.32	6.42	13.68	4.17	203.42	1254.93	35.65	29.36	184.34	91.19
*	5170.000	3050.76	1714.00	8.06	6.49	13.70	4.26	258.23	1401.93	53.84	32.28	160.03	91.34
*	5170.000	3051.58	2099.00	8.88	7.26	14.47	4.62	362.74	1650.12	86.13	35.57	154.31	91.29
*	5350.000	3164.99	1029.00	3.69	.00	7.14	7.14	.00	880.99	148.00	93.05	405.10	116.29
*	5350.000	3165.52	1494.00	4.22	.05	7.41	7.61	.00	1286.14	207.86	117.59	382.51	115.50
*	5350.000	3165.69	1714.00	4.39	1.31	7.77	7.82	.20	1482.61	231.18	121.69	383.66	114.93
*	5350.000	3165.94	2099.00	4.64	1.99	8.37	8.11	1.09	1829.03	268.88	125.41	381.93	114.36

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	5510.000	3273.92	1029.00	3.82	4.93	10.26	5.47	49.20	895.71	84.10	40.46	240.70	108.93
*	5510.000	3274.81	1494.00	4.71	5.50	11.44	6.00	88.06	1264.36	141.58	44.03	218.32	109.29
*	5510.000	3275.19	1714.00	5.09	5.72	11.89	6.21	108.92	1433.29	171.78	45.57	209.96	109.50
*	5510.000	3275.78	2099.00	5.68	6.10	12.68	6.59	147.74	1723.85	227.42	47.93	203.78	109.84
*	5610.000	3329.21	1029.00	4.41	6.11	9.80	5.27	280.56	590.53	157.91	61.09	226.55	55.28
*	5610.000	3329.84	1494.00	5.04	7.07	11.07	6.20	429.27	793.16	271.57	66.42	229.53	55.03
*	5610.000	3330.11	1714.00	5.31	7.41	11.53	6.53	500.77	883.58	329.65	68.73	227.97	54.92
*	5610.000	3330.59	2099.00	5.79	7.83	12.09	6.93	627.94	1032.34	438.72	72.81	217.22	54.81

ILLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1710.000	.00	.00	.00	2201.90	2274.00	2206.84	.00	2207.55	100.24	6.90	338.67	227.13
	1710.000	.00	.00	.00	2201.90	3445.00	2207.42	.00	2208.42	101.57	8.19	436.61	341.83
	1710.000	.00	.00	.00	2201.90	4047.00	2207.70	.00	2208.83	100.11	8.70	485.02	404.48
	1710.000	.00	.00	.00	2201.90	5109.00	2208.13	2207.96	2209.47	100.41	9.54	564.78	509.87
*	1830.000	740.00	.00	.00	2215.30	2274.00	2220.14	2220.14	2221.11	124.51	7.95	291.05	203.80
*	1830.000	740.00	.00	.00	2215.30	3445.00	2220.69	2220.69	2222.09	133.41	9.56	371.10	298.26
*	1830.000	740.00	.00	.00	2215.30	4047.00	2221.03	2221.03	2222.54	123.29	9.94	423.01	364.47
*	1830.000	740.00	.00	.00	2215.30	5109.00	2221.61	2221.61	2223.26	107.89	10.44	518.81	491.86
*	2030.000	1110.00	.00	.00	2241.00	2274.00	2243.88	2243.88	2244.66	201.96	7.22	323.95	160.01
*	2030.000	1110.00	.00	.00	2241.00	3445.00	2244.37	2244.37	2245.40	189.20	8.25	432.11	250.45
*	2030.000	1110.00	.00	.00	2241.00	4047.00	2244.61	2244.61	2245.74	181.21	8.68	484.25	300.64
*	2030.000	1110.00	.00	.00	2241.00	5109.00	2244.99	2244.99	2246.29	171.45	9.35	570.20	390.18
*	2070.000	160.00	.00	.00	2245.50	2274.00	2248.75	2248.75	2249.84	136.57	8.42	276.76	194.59
*	2070.000	160.00	.00	.00	2245.50	3445.00	2249.47	2249.47	2250.84	128.32	9.50	374.73	304.12
*	2070.000	160.00	.00	.00	2245.50	4047.00	2249.78	2249.78	2251.29	123.82	10.00	419.88	363.70
	2070.000	160.00	.00	.00	2245.50	5109.00	2250.35	2250.35	2252.04	110.82	10.59	504.36	485.32
*	2170.000	530.00	.00	.00	2255.30	1335.77	2258.15	.00	2258.62	237.62	5.55	242.46	86.65
*	2170.000	530.00	.00	.00	2255.30	1719.14	2258.38	.00	2258.88	215.21	5.67	306.04	117.19
*	2170.000	530.00	.00	.00	2255.30	1916.26	2258.51	.00	2259.01	206.20	5.72	338.21	133.45
*	2170.000	530.00	.00	.00	2255.30	2250.15	2258.73	.00	2259.19	216.28	5.51	411.24	153.00
*	2260.000	480.00	.00	.00	2266.80	1335.77	2270.01	2270.01	2270.92	136.86	7.80	178.25	114.18
*	2260.000	480.00	.00	.00	2266.80	1719.14	2270.38	2270.38	2271.41	124.68	8.35	218.49	153.96
*	2260.000	480.00	.00	.00	2266.80	1916.26	2270.53	2270.53	2271.64	123.97	8.68	236.07	172.11
*	2260.000	480.00	.00	.00	2266.80	2250.15	2270.80	2270.80	2272.01	118.02	9.08	268.93	207.12
*	2310.000	220.00	.00	.00	2273.20	1335.77	2275.42	2275.42	2276.13	163.69	6.81	197.52	104.40
*	2310.000	220.00	.00	.00	2273.20	1719.14	2275.68	2275.68	2276.52	155.82	7.34	235.87	137.72
*	2310.000	220.00	.00	.00	2273.20	1916.26	2275.81	2275.81	2276.70	152.14	7.57	254.93	155.36
*	2310.000	220.00	.00	.00	2273.20	2250.15	2276.02	2276.02	2276.99	147.41	7.94	285.58	185.33
*	2400.000	320.00	.00	.00	2285.40	713.77	2288.41	2288.41	2288.95	245.98	6.00	122.03	45.51
*	2400.000	320.00	.00	.00	2285.40	773.14	2288.48	2288.48	2289.04	239.50	6.04	131.40	49.96
*	2400.000	320.00	.00	.00	2285.40	791.26	2288.49	2288.49	2289.06	245.53	6.13	132.51	50.50
*	2400.000	320.00	.00	.00	2285.40	808.15	2288.53	2288.53	2289.08	234.20	6.05	137.24	52.81
*	2470.000	320.00	.00	.00	2297.00	713.77	2299.45	2299.45	2300.01	186.49	6.01	119.26	52.27
*	2470.000	320.00	.00	.00	2297.00	773.14	2299.51	2299.51	2300.10	183.39	6.15	126.28	57.09
*	2470.000	320.00	.00	.00	2297.00	791.26	2299.53	2299.53	2300.12	181.65	6.18	128.59	58.71
*	2470.000	320.00	.00	.00	2297.00	808.15	2299.55	2299.55	2300.15	181.37	6.22	130.43	60.01

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2580.000	580.00	.00	.00	2311.90	713.77	2316.05	2316.05	2316.73	240.79	6.64	107.44	46.00
*	2580.000	580.00	.00	.00	2311.90	773.14	2316.13	2316.13	2316.84	237.69	6.74	114.64	50.15
*	2580.000	580.00	.00	.00	2311.90	791.26	2316.20	2316.20	2316.87	215.46	6.54	121.04	53.91
*	2580.000	580.00	.00	.00	2311.90	808.15	2316.22	2316.22	2316.89	215.46	6.57	122.98	55.06
*	2650.000	370.00	.00	.00	2326.00	713.77	2328.88	2328.88	2329.42	245.60	5.82	121.47	45.55
*	2650.000	370.00	.00	.00	2326.00	773.14	2328.95	2328.95	2329.51	243.38	5.90	129.78	49.56
*	2650.000	370.00	.00	.00	2326.00	791.26	2328.97	2328.97	2329.53	244.17	5.94	131.98	50.64
*	2650.000	370.00	.00	.00	2326.00	808.15	2328.99	2328.99	2329.55	242.75	5.95	134.48	51.87
*	2720.000	410.00	.00	.00	2340.00	713.77	2343.29	2343.29	2343.71	226.25	3.62	155.27	47.45
*	2720.000	410.00	.00	.00	2340.00	773.14	2343.35	2343.35	2343.77	220.76	3.66	168.74	52.04
*	2720.000	410.00	.00	.00	2340.00	791.26	2343.37	2343.37	2343.78	219.62	3.68	172.75	53.39
*	2720.000	410.00	.00	.00	2340.00	808.15	2343.39	2343.39	2343.80	218.84	3.69	176.38	54.63
*	2780.000	280.00	.00	.00	2350.80	713.77	2354.41	2354.41	2354.99	182.75	6.12	116.68	52.80
*	2780.000	280.00	.00	.00	2350.80	773.14	2354.47	2354.47	2355.08	180.49	6.28	123.05	57.55
*	2780.000	280.00	.00	.00	2350.80	791.26	2354.49	2354.49	2355.11	179.37	6.33	125.06	59.08
*	2780.000	280.00	.00	.00	2350.80	808.15	2354.50	2354.50	2355.13	178.95	6.37	126.80	60.41
*	2850.000	370.00	.00	.00	2360.40	1367.19	2364.78	2364.78	2365.71	96.92	7.96	185.92	138.88
*	2850.000	370.00	.00	.00	2360.40	1710.33	2365.09	2365.09	2366.13	93.37	8.49	218.52	177.00
*	2850.000	370.00	.00	.00	2360.40	1848.14	2365.21	2365.21	2366.29	91.61	8.66	231.42	193.09
*	2850.000	370.00	.00	.00	2360.40	2093.54	2365.42	2365.42	2366.57	88.61	8.94	253.88	222.40
*	2970.000	635.00	.00	.00	2382.50	1367.19	2387.98	2387.98	2388.49	167.05	5.80	240.59	105.78
*	2970.000	635.00	.00	.00	2382.50	1710.33	2388.10	2388.10	2388.73	190.09	6.46	270.21	124.05
*	2970.000	635.00	.00	.00	2382.50	1848.14	2388.15	2388.15	2388.83	195.72	6.67	282.86	132.10
*	2970.000	635.00	.00	.00	2382.50	2093.54	2388.35	2388.35	2388.97	159.35	6.40	334.39	165.85
*	3090.000	690.00	.00	.00	2409.30	1367.19	2413.53	2413.53	2414.77	99.25	8.97	152.49	137.23
*	3090.000	690.00	.00	.00	2409.30	1710.33	2414.05	2414.05	2415.37	98.69	9.21	185.79	172.16
*	3090.000	690.00	.00	.00	2409.30	1848.14	2414.27	2414.27	2415.57	100.02	9.14	202.31	184.80
*	3090.000	690.00	.00	.00	2409.30	2093.54	2414.61	2414.61	2415.88	99.58	9.05	231.41	209.80
*	3170.000	420.00	.00	.00	2426.00	1652.00	2430.34	2430.34	2431.40	145.76	8.28	199.50	136.83
*	3170.000	420.00	.00	.00	2426.00	2499.00	2431.12	2431.12	2432.33	130.22	8.84	283.83	218.99
*	3170.000	420.00	.00	.00	2426.00	2922.00	2431.45	2431.45	2432.71	117.39	9.05	334.10	269.69
*	3170.000	420.00	.00	.00	2426.00	3667.00	2431.92	2431.92	2433.30	107.95	9.53	410.03	352.95
*	3290.000	630.00	.00	.00	2452.10	1652.00	2457.50	2457.50	2458.29	244.71	6.45	241.74	105.60
*	3290.000	630.00	.00	.00	2452.10	2499.00	2457.98	2457.98	2458.94	241.50	7.47	325.16	160.81
*	3290.000	630.00	.00	.00	2452.10	2922.00	2458.27	2458.27	2459.22	210.26	7.53	381.56	201.51
*	3290.000	630.00	.00	.00	2452.10	3667.00	2458.57	2458.57	2459.68	219.56	8.27	440.04	247.48
*	3390.000	530.00	.00	.00	2475.20	1652.00	2480.64	2480.64	2481.61	244.66	7.93	209.01	105.62
*	3390.000	530.00	.00	.00	2475.20	2499.00	2481.34	2481.34	2482.44	246.19	8.41	298.39	159.27
*	3390.000	530.00	.00	.00	2475.20	2922.00	2481.63	2481.63	2482.77	243.90	8.62	340.88	187.10
*	3390.000	530.00	.00	.00	2475.20	3667.00	2482.06	2482.06	2483.29	236.03	8.92	413.74	238.69

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	3490.000	530.00	.00	.00	2496.70	1652.00	2501.17	2501.17	2502.44	174.61	9.08	183.02	125.02
*	3490.000	530.00	.00	.00	2496.70	2499.00	2502.06	2502.06	2503.57	161.71	9.90	256.30	196.52
*	3490.000	530.00	.00	.00	2496.70	2922.00	2502.39	2502.39	2504.05	157.86	10.39	286.76	232.56
*	3490.000	530.00	.00	.00	2496.70	3667.00	2502.95	2502.95	2504.84	147.09	11.11	339.32	302.36
*	3570.000	420.00	.00	.00	2514.90	1652.00	2519.57	2519.57	2521.00	131.93	9.61	172.29	143.83
*	3570.000	420.00	.00	.00	2514.90	2499.00	2520.55	2520.55	2522.30	117.89	10.63	238.87	230.16
*	3570.000	420.00	.00	.00	2514.90	2922.00	2520.96	2520.96	2522.86	114.24	11.12	269.02	273.38
*	3570.000	420.00	.00	.00	2514.90	3667.00	2521.60	2521.60	2523.77	106.84	11.90	319.30	354.77
*	3650.000	420.00	.00	.00	2534.40	1652.00	2538.03	2538.03	2539.17	138.52	8.60	194.51	140.36
*	3650.000	420.00	.00	.00	2534.40	2499.00	2538.75	2538.75	2540.23	124.71	9.81	259.76	223.78
*	3650.000	420.00	.00	.00	2534.40	2922.00	2539.08	2539.08	2540.71	119.77	10.31	290.13	267.00
*	3650.000	420.00	.00	.00	2534.40	3667.00	2539.61	2539.61	2541.49	113.57	11.09	340.46	344.10
*	3740.000	480.00	.00	.00	2562.10	1029.00	2564.15	2564.15	2564.62	409.20	5.51	188.29	50.87
*	3740.000	480.00	.00	.00	2562.10	1494.00	2564.41	2564.41	2564.99	365.94	6.18	244.48	78.10
*	3740.000	480.00	.00	.00	2562.10	1714.00	2564.52	2564.52	2565.15	355.80	6.47	268.16	90.87
*	3740.000	480.00	.00	.00	2562.10	2099.00	2564.70	2564.70	2565.42	331.98	6.87	310.05	115.20
*	3830.000	380.00	.00	.00	2581.40	1029.00	2585.30	2585.30	2586.12	335.65	7.29	142.16	56.17
*	3830.000	380.00	.00	.00	2581.40	1494.00	2585.78	2585.78	2586.77	311.15	8.03	187.59	84.70
*	3830.000	380.00	.00	.00	2581.40	1714.00	2585.99	2585.99	2587.04	299.98	8.28	208.61	98.96
*	3830.000	380.00	.00	.00	2581.40	2099.00	2586.30	2586.30	2587.48	293.64	8.76	241.54	122.49
*	3930.000	530.00	.00	.00	2609.50	1029.00	2612.78	2612.78	2613.54	341.76	6.93	147.39	55.66
*	3930.000	530.00	.00	.00	2609.50	1494.00	2613.38	2613.38	2614.02	297.51	6.21	234.63	86.62
*	3930.000	530.00	.00	.00	2609.50	1714.00	2613.49	2613.49	2614.21	315.17	6.61	253.40	96.55
*	3930.000	530.00	.00	.00	2609.50	2099.00	2613.73	2613.73	2614.52	296.87	6.97	296.24	121.82
*	3990.000	320.00	.00	.00	2622.90	1029.00	2628.28	2628.28	2629.84	219.54	10.41	105.46	69.45
*	3990.000	320.00	.00	.00	2622.90	1494.00	2629.21	2629.21	2631.12	194.92	11.63	140.31	107.01
*	3990.000	320.00	.00	.00	2622.90	1714.00	2629.62	2629.62	2631.66	184.49	12.06	156.77	126.19
*	3990.000	320.00	.00	.00	2622.90	2099.00	2630.23	2630.23	2632.53	177.27	12.87	182.43	157.65
*	4070.000	420.00	.00	.00	2648.40	1029.00	2656.67	2656.67	2658.76	270.73	11.61	88.62	62.54
*	4070.000	420.00	.00	.00	2648.40	1494.00	2657.98	2657.98	2660.40	256.30	12.48	119.67	93.32
*	4070.000	420.00	.00	.00	2648.40	1714.00	2658.51	2658.51	2661.07	250.42	12.85	133.40	108.31
*	4070.000	420.00	.00	.00	2648.40	2099.00	2659.26	2659.26	2662.15	237.27	13.64	154.84	136.27
*	4190.000	630.00	.00	.00	2695.10	1029.00	2700.29	2700.29	2702.19	211.23	11.13	95.05	70.80
*	4190.000	630.00	.00	.00	2695.10	1494.00	2701.44	2701.44	2703.72	196.96	12.29	126.65	106.45
*	4190.000	630.00	.00	.00	2695.10	1714.00	2701.93	2701.93	2704.37	191.81	12.73	141.06	123.76
*	4190.000	630.00	.00	.00	2695.10	2099.00	2702.67	2702.67	2705.40	185.01	13.53	164.20	154.32
*	4280.000	480.00	.00	.00	2727.50	1029.00	2731.89	2731.89	2733.32	186.33	9.84	112.31	75.38
*	4280.000	480.00	.00	.00	2727.50	1494.00	2732.75	2732.75	2734.48	168.69	10.95	150.51	115.03
*	4280.000	480.00	.00	.00	2727.50	1714.00	2733.11	2733.11	2734.97	162.91	11.38	167.81	134.29
*	4280.000	480.00	.00	.00	2727.50	2099.00	2733.70	2733.70	2735.75	155.32	12.06	197.04	168.42

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	4380.000	530.00	.00	.00	2754.10	1029.00	2759.64	2759.64	2761.22	298.74	10.13	104.25	59.53
*	4380.000	530.00	.00	.00	2754.10	1494.00	2760.63	2760.63	2762.46	252.16	11.04	144.26	94.08
*	4380.000	530.00	.00	.00	2754.10	1714.00	2761.07	2761.07	2762.96	233.38	11.32	164.54	112.20
*	4380.000	530.00	.00	.00	2754.10	2099.00	2761.70	2761.70	2763.74	218.16	11.89	196.87	142.11
*	4420.000	210.00	.00	.00	2769.50	1029.00	2774.38	2774.38	2776.09	326.19	10.50	98.56	56.97
*	4420.000	210.00	.00	.00	2769.50	1494.00	2775.42	2775.42	2777.48	295.36	11.60	131.75	86.93
*	4420.000	210.00	.00	.00	2769.50	1714.00	2775.84	2775.84	2778.06	287.29	12.04	146.67	101.12
*	4420.000	210.00	.00	.00	2769.50	2099.00	2776.55	2776.55	2778.99	265.96	12.69	172.96	128.71
*	4460.000	210.00	.00	.00	2783.10	1029.00	2787.59	2787.59	2789.39	262.96	11.00	100.87	63.46
*	4460.000	210.00	.00	.00	2783.10	1494.00	2788.67	2788.67	2790.86	238.42	12.27	134.76	96.76
*	4460.000	210.00	.00	.00	2783.10	1714.00	2789.15	2789.15	2791.47	225.89	12.69	151.15	114.04
*	4460.000	210.00	.00	.00	2783.10	2099.00	2789.89	2789.89	2792.47	215.60	13.47	177.26	142.95
*	4610.000	790.00	.00	.00	2833.40	1029.00	2838.03	2838.03	2839.43	203.14	9.84	119.12	72.20
*	4610.000	790.00	.00	.00	2833.40	1494.00	2839.00	2839.00	2840.51	167.18	10.47	170.75	115.55
*	4610.000	790.00	.00	.00	2833.40	1714.00	2839.34	2839.34	2840.93	164.33	10.88	190.70	133.71
*	4610.000	790.00	.00	.00	2833.40	2099.00	2839.85	2839.85	2841.60	162.93	11.57	223.57	164.44
*	4810.000	1060.00	.00	.00	2888.70	1029.00	2893.65	2893.65	2895.08	205.15	10.37	119.73	71.84
*	4810.000	1060.00	.00	.00	2888.70	1494.00	2894.78	2894.78	2896.13	149.50	10.50	191.86	122.19
*	4810.000	1060.00	.00	.00	2888.70	1714.00	2895.08	2895.08	2896.50	150.63	10.95	215.12	139.66
*	4810.000	1060.00	.00	.00	2888.70	2099.00	2895.52	2895.52	2897.08	154.01	11.69	251.11	169.14
*	4990.000	950.00	.00	.00	2950.30	1029.00	2957.44	2957.44	2959.65	191.67	12.80	98.02	74.33
*	4990.000	950.00	.00	.00	2950.30	1494.00	2958.83	2958.83	2961.45	179.09	14.23	133.60	111.64
*	4990.000	950.00	.00	.00	2950.30	1714.00	2959.42	2959.42	2962.19	174.01	14.76	150.13	129.94
*	4990.000	950.00	.00	.00	2950.30	2099.00	2960.30	2960.30	2963.37	171.67	15.72	176.47	160.20
*	5170.000	950.00	.00	.00	3042.70	1029.00	3048.70	3048.70	3050.85	206.06	12.39	96.48	71.68
*	5170.000	950.00	.00	.00	3042.70	1494.00	3050.02	3050.02	3052.56	184.34	13.68	132.00	110.04
*	5170.000	950.00	.00	.00	3042.70	1714.00	3050.76	3050.76	3053.25	160.03	13.70	154.75	135.49
*	5170.000	950.00	.00	.00	3042.70	2099.00	3051.58	3051.58	3054.29	154.31	14.47	182.62	168.97
*	5350.000	950.00	.00	.00	3161.30	1029.00	3164.99	3164.99	3165.78	405.10	7.14	144.07	51.13
*	5350.000	950.00	.00	.00	3161.30	1494.00	3165.52	3165.52	3166.38	382.51	7.41	200.84	76.39
*	5350.000	950.00	.00	.00	3161.30	1714.00	3165.69	3165.69	3166.63	383.66	7.77	220.61	87.51
*	5350.000	950.00	.00	.00	3161.30	2099.00	3165.94	3165.94	3167.02	381.93	8.37	252.13	107.40
*	5510.000	840.00	.00	.00	3270.10	1029.00	3273.92	3273.92	3275.40	240.70	10.26	112.64	66.32
*	5510.000	840.00	.00	.00	3270.10	1494.00	3274.81	3274.81	3276.61	218.32	11.44	150.12	101.11
*	5510.000	840.00	.00	.00	3270.10	1714.00	3275.19	3275.19	3277.12	209.96	11.89	167.29	118.29
*	5510.000	840.00	.00	.00	3270.10	2099.00	3275.78	3275.78	3277.95	203.78	12.68	194.65	147.04
*	5610.000	530.00	.00	.00	3324.80	1029.00	3329.21	3329.21	3330.29	226.55	9.80	136.14	68.36
*	5610.000	530.00	.00	.00	3324.80	1494.00	3329.84	3329.84	3331.18	229.53	11.07	176.27	98.61
*	5610.000	530.00	.00	.00	3324.80	1714.00	3330.11	3330.11	3331.55	227.97	11.53	194.76	113.52
*	5610.000	530.00	.00	.00	3324.80	2099.00	3330.59	3330.59	3332.15	217.22	12.09	228.89	142.42

ILLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1710.000	2274.00	2206.84	.00	.00	41.98	166.09	.00
	1710.000	3445.00	2207.42	.58	.00	42.17	170.34	.00
	1710.000	4047.00	2207.70	.28	.00	42.33	172.42	.00
	1710.000	5109.00	2208.13	.43	.00	42.38	204.51	.00
*	1830.000	2274.00	2220.14	.00	13.30	.00	140.48	740.00
*	1830.000	3445.00	2220.69	.55	13.27	.00	149.42	740.00
*	1830.000	4047.00	2221.03	.34	13.33	.00	154.94	740.00
*	1830.000	5109.00	2221.61	.58	13.49	.00	172.58	740.00
*	2030.000	2274.00	2243.88	.00	23.74	.00	210.36	1110.00
*	2030.000	3445.00	2244.37	.50	23.68	.00	221.09	1110.00
*	2030.000	4047.00	2244.61	.23	23.58	.00	223.79	1110.00
*	2030.000	5109.00	2244.99	.38	23.37	.00	228.17	1110.00
*	2070.000	2274.00	2248.75	.00	4.88	.00	130.66	160.00
*	2070.000	3445.00	2249.47	.72	5.10	.00	143.15	160.00
*	2070.000	4047.00	2249.78	.31	5.18	.00	145.79	160.00
	2070.000	5109.00	2250.35	.57	5.37	.00	150.09	160.00
*	2170.000	1335.77	2258.15	.00	9.39	.00	238.37	530.00
*	2170.000	1719.14	2258.38	.24	8.91	.00	273.48	530.00
*	2170.000	1916.26	2258.51	.12	8.72	.00	289.74	530.00
*	2170.000	2250.15	2258.73	.22	8.37	.00	380.51	530.00
*	2260.000	1335.77	2270.01	.00	11.86	.00	104.65	480.00
*	2260.000	1719.14	2270.38	.37	11.99	.00	113.40	480.00
*	2260.000	1916.26	2270.53	.15	12.03	.00	117.01	480.00
*	2260.000	2250.15	2270.80	.27	12.08	.00	123.49	480.00
*	2310.000	1335.77	2275.42	.00	5.41	.00	141.70	220.00
*	2310.000	1719.14	2275.68	.27	5.30	.00	145.75	220.00
*	2310.000	1916.26	2275.81	.13	5.28	.00	147.72	220.00
*	2310.000	2250.15	2276.02	.21	5.21	.00	151.05	220.00
*	2400.000	713.77	2288.41	.00	12.99	.00	118.19	320.00
*	2400.000	773.14	2288.48	.08	12.80	.00	123.21	320.00
*	2400.000	791.26	2288.49	.01	12.68	.00	123.80	320.00
*	2400.000	808.15	2288.53	.04	12.51	.00	126.24	320.00
*	2470.000	713.77	2299.45	.00	11.04	.00	112.62	320.00
*	2470.000	773.14	2299.51	.06	11.03	.00	113.84	320.00
*	2470.000	791.26	2299.53	.02	11.04	.00	114.23	320.00
*	2470.000	808.15	2299.55	.02	11.02	.00	114.55	320.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2580.000	713.77	2316.05	.00	16.60	.00	85.41	580.00
*	2580.000	773.14	2316.13	.08	16.62	.00	88.25	580.00
*	2580.000	791.26	2316.20	.07	16.67	.00	90.70	580.00
*	2580.000	808.15	2316.22	.02	16.68	.00	91.42	580.00
*	2650.000	713.77	2328.88	.00	12.84	.00	118.32	370.00
*	2650.000	773.14	2328.95	.07	12.82	.00	122.99	370.00
*	2650.000	791.26	2328.97	.02	12.77	.00	124.20	370.00
*	2650.000	808.15	2328.99	.02	12.77	.00	125.56	370.00
*	2720.000	713.77	2343.29	.00	14.41	.00	209.33	410.00
*	2720.000	773.14	2343.35	.06	14.40	.00	222.73	410.00
*	2720.000	791.26	2343.37	.02	14.40	.00	226.85	410.00
*	2720.000	808.15	2343.39	.02	14.40	.00	230.52	410.00
*	2780.000	713.77	2354.41	.00	11.12	.00	105.45	280.00
*	2780.000	773.14	2354.47	.06	11.11	.00	105.77	280.00
*	2780.000	791.26	2354.49	.02	11.12	.00	105.88	280.00
*	2780.000	808.15	2354.50	.02	11.12	.00	105.97	280.00
*	2850.000	1367.19	2364.78	.00	10.37	.00	104.88	370.00
*	2850.000	1710.33	2365.09	.31	10.62	.00	106.08	370.00
*	2850.000	1848.14	2365.21	.12	10.73	.00	106.55	370.00
*	2850.000	2093.54	2365.42	.21	10.92	.00	107.37	370.00
*	2970.000	1367.19	2387.98	.00	23.20	.00	233.77	635.00
*	2970.000	1710.33	2388.10	.12	23.01	.00	248.58	635.00
*	2970.000	1848.14	2388.15	.05	22.94	.00	254.58	635.00
*	2970.000	2093.54	2388.35	.19	22.92	.00	277.66	635.00
*	3090.000	1367.19	2413.53	.00	25.55	.00	60.63	690.00
*	3090.000	1710.33	2414.05	.52	25.95	.00	70.65	690.00
*	3090.000	1848.14	2414.27	.22	26.12	.00	78.68	690.00
*	3090.000	2093.54	2414.61	.34	26.27	.00	91.13	690.00
*	3170.000	1652.00	2430.34	.00	16.81	.00	96.60	420.00
*	3170.000	2499.00	2431.12	.78	17.07	.00	136.07	420.00
*	3170.000	2922.00	2431.45	.33	17.18	.00	156.58	420.00
*	3170.000	3667.00	2431.92	.47	17.31	.00	164.71	420.00
*	3290.000	1652.00	2457.50	.00	27.17	.00	166.47	630.00
*	3290.000	2499.00	2457.98	.48	26.86	.00	183.79	630.00
*	3290.000	2922.00	2458.27	.30	26.83	.00	194.63	630.00
*	3290.000	3667.00	2458.57	.29	26.65	.00	203.68	630.00
*	3390.000	1652.00	2480.64	.00	23.14	.00	108.89	530.00
*	3390.000	2499.00	2481.34	.71	23.37	.00	143.62	530.00
*	3390.000	2922.00	2481.63	.28	23.35	.00	157.89	530.00
*	3390.000	3667.00	2482.06	.43	23.49	.00	178.39	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	3490.000	1652.00	2501.17	.00	20.53	.00	74.40	530.00
*	3490.000	2499.00	2502.06	.89	20.71	.00	88.86	530.00
*	3490.000	2922.00	2502.39	.34	20.77	.00	92.00	530.00
*	3490.000	3667.00	2502.95	.56	20.90	.00	95.46	530.00
*	3570.000	1652.00	2519.57	.00	18.41	.00	63.14	420.00
*	3570.000	2499.00	2520.55	.98	18.49	.00	72.75	420.00
*	3570.000	2922.00	2520.96	.40	18.56	.00	76.06	420.00
*	3570.000	3667.00	2521.60	.65	18.65	.00	79.68	420.00
*	3650.000	1652.00	2538.03	.00	18.45	.00	88.96	420.00
*	3650.000	2499.00	2538.75	.72	18.20	.00	91.79	420.00
*	3650.000	2922.00	2539.08	.33	18.12	.00	93.08	420.00
*	3650.000	3667.00	2539.61	.53	18.01	.00	95.18	420.00
*	3740.000	1029.00	2564.15	.00	26.13	.00	217.25	480.00
*	3740.000	1494.00	2564.41	.26	25.66	.00	219.90	480.00
*	3740.000	1714.00	2564.52	.11	25.44	.00	221.01	480.00
*	3740.000	2099.00	2564.70	.19	25.09	.00	222.95	480.00
*	3830.000	1029.00	2585.30	.00	21.15	.00	91.58	380.00
*	3830.000	1494.00	2585.78	.48	21.37	.00	98.96	380.00
*	3830.000	1714.00	2585.99	.21	21.47	.00	102.20	380.00
*	3830.000	2099.00	2586.30	.31	21.60	.00	107.07	380.00
*	3930.000	1029.00	2612.78	.00	27.48	.00	101.50	530.00
*	3930.000	1494.00	2613.38	.60	27.61	.00	169.18	530.00
*	3930.000	1714.00	2613.49	.11	27.51	.00	174.06	530.00
*	3930.000	2099.00	2613.73	.24	27.43	.00	181.56	530.00
*	3990.000	1029.00	2628.28	.00	15.50	.00	36.23	320.00
*	3990.000	1494.00	2629.21	.92	15.82	.00	39.41	320.00
*	3990.000	1714.00	2629.62	.41	16.12	.00	40.82	320.00
*	3990.000	2099.00	2630.23	.61	16.49	.00	42.93	320.00
*	4070.000	1029.00	2656.67	.00	28.38	.00	21.82	420.00
*	4070.000	1494.00	2657.98	1.32	28.78	.00	25.40	420.00
*	4070.000	1714.00	2658.51	.52	28.89	.00	27.10	420.00
*	4070.000	2099.00	2659.26	.75	29.03	.00	29.76	420.00
*	4190.000	1029.00	2700.29	.00	43.62	.00	26.28	630.00
*	4190.000	1494.00	2701.44	1.15	43.46	.00	28.85	630.00
*	4190.000	1714.00	2701.93	.49	43.42	.00	29.94	630.00
*	4190.000	2099.00	2702.67	.74	43.41	.00	32.64	630.00
*	4280.000	1029.00	2731.89	.00	31.60	.00	42.18	480.00
*	4280.000	1494.00	2732.75	.86	31.31	.00	46.64	480.00
*	4280.000	1714.00	2733.11	.36	31.18	.00	48.53	480.00
*	4280.000	2099.00	2733.70	.58	31.02	.00	51.56	480.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	4380.000	1029.00	2759.64	.00	27.75	.00	36.20	530.00
*	4380.000	1494.00	2760.63	.99	27.88	.00	44.71	530.00
*	4380.000	1714.00	2761.07	.44	27.96	.00	48.43	530.00
*	4380.000	2099.00	2761.70	.63	28.00	.00	53.69	530.00
*	4420.000	1029.00	2774.38	.00	14.74	.00	30.22	210.00
*	4420.000	1494.00	2775.42	1.03	14.78	.00	33.98	210.00
*	4420.000	1714.00	2775.84	.43	14.78	.00	35.54	210.00
*	4420.000	2099.00	2776.55	.71	14.85	.00	38.65	210.00
*	4460.000	1029.00	2787.59	.00	13.21	.00	30.11	210.00
*	4460.000	1494.00	2788.67	1.07	13.25	.00	33.11	210.00
*	4460.000	1714.00	2789.15	.48	13.31	.00	34.47	210.00
*	4460.000	2099.00	2789.89	.74	13.33	.00	36.53	210.00
*	4610.000	1029.00	2838.03	.00	50.43	.00	48.00	790.00
*	4610.000	1494.00	2839.00	.98	50.34	.00	58.02	790.00
*	4610.000	1714.00	2839.34	.33	50.18	.00	61.70	790.00
*	4610.000	2099.00	2839.85	.51	49.96	.00	67.32	790.00
*	4810.000	1029.00	2893.65	.00	55.62	.00	50.67	1060.00
*	4810.000	1494.00	2894.78	1.13	55.78	.00	78.12	1060.00
*	4810.000	1714.00	2895.08	.30	55.74	.00	79.26	1060.00
*	4810.000	2099.00	2895.52	.45	55.68	.00	80.98	1060.00
*	4990.000	1029.00	2957.44	.00	63.79	.00	23.77	950.00
*	4990.000	1494.00	2958.83	1.39	64.05	.00	27.32	950.00
*	4990.000	1714.00	2959.42	.59	64.34	.00	28.82	950.00
*	4990.000	2099.00	2960.30	.88	64.77	.00	31.06	950.00
*	5170.000	1029.00	3048.70	.00	91.26	.00	24.64	950.00
*	5170.000	1494.00	3050.02	1.33	91.19	.00	29.36	950.00
*	5170.000	1714.00	3050.76	.74	91.34	.00	32.28	950.00
*	5170.000	2099.00	3051.58	.82	91.29	.00	35.57	950.00
*	5350.000	1029.00	3164.99	.00	116.29	.00	93.05	950.00
*	5350.000	1494.00	3165.52	.53	115.50	.00	117.59	950.00
*	5350.000	1714.00	3165.69	.17	114.93	.00	121.69	950.00
*	5350.000	2099.00	3165.94	.25	114.36	.00	125.41	950.00
*	5510.000	1029.00	3273.92	.00	108.93	.00	40.46	840.00
*	5510.000	1494.00	3274.81	.89	109.29	.00	44.03	840.00
*	5510.000	1714.00	3275.19	.38	109.50	.00	45.57	840.00
*	5510.000	2099.00	3275.78	.59	109.84	.00	47.93	840.00
*	5610.000	1029.00	3329.21	.00	55.28	.00	61.09	530.00
*	5610.000	1494.00	3329.84	.63	55.03	.00	66.42	530.00
*	5610.000	1714.00	3330.11	.27	54.92	.00	68.73	530.00
*	5610.000	2099.00	3330.59	.48	54.81	.00	72.81	530.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   3650.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3650.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3650.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3650.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3650.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3650.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   3740.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3740.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   3740.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3740.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3740.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3740.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3740.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   3740.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   3740.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   3740.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   3830.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   3830.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   3990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   3990.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   4070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   4070.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
ON SECNO=   4070.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4070.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4190.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4280.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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ON SECNO=   4420.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   4610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   4990.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=  5510.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     9/25/90    TIME    10:51:17           *
*******************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*            (916) 756-1104
****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

THIS RUN EXECUTED 9/25/90 10:51:17

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCWEST.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                          .01                                2164.86

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38       1       43       8       55       26       56       13       14       15
     4       5       51
   150


QT       4      2274      3445      4047      5109

NC    .045      .045      .035       .1        .3

       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT & OCSPLIT.OUT*******
         THIS MODEL COMPUTES PROFILES FOR THE WEST BRAID OF OCOTILLO WASH.
         ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-2 MODEL (OCSPLIT.OUT).
         STRT W.S. ELEV. IS NORMAL DEPTH.
         QT VALUES ARE FROM CP 35.
X1    1710       24    9989.7   10135.5
GR  2228.2   9735.2   2230.8    9776.1   2231.1    9802.2   2228.2    9814.7   2223.1    9836.4
GR  2212.1   9863.4   2208.6    9889.0   2207.8    9903.8   2209.2    9929.9   2208.2    9954.3
GR  2207.7   9975.9   2201.9    9989.7   2202.2   10000.0   2205.6   10025.2   2204.3   10046.9
GR  2205.2  10066.2   2205.6   10103.3   2205.5   10122.7   2205.1   10135.5   2207.8   10148.8
GR  2212.8  10165.1   2216.2   10210.2   2218.2   10266.6   2219.0   10312.0
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X1    1830      31    9988.5   10118.4     640     650     740
GR   2242.2  9721.1   2239.5    9755.1  2236.9  9779.5  2233.9  9792.3  2232.4  9842.8
GR   2231.2  9897.3   2230.8    9946.1  2231.2  9958.3  2221.2  9978.6  2221.3  9986.1
GR   2215.3  9988.5   2216.7   10000.0  2216.1 10016.4  2218.0 10029.7  2219.8 10055.7
GR   2218.6 10087.5   2216.7   10103.1  2219.3 10118.4  2221.9 10135.6  2222.6 10167.9
GR   2219.8 10184.5   2223.5   10196.5  2223.5 10210.2  2222.0 10231.3  2222.9 10274.4
GR   2223.9 10298.4   2229.5   10313.9  2231.6 10338.2  2231.6 10394.9  2231.6 10438.8
GR   2232.6 10493.4


NC     .05      .05      .04

X1    2030      18    9874.2   10067.5    1070    1060    1110
GR   2252.8  9793.7   2252.5    9830.5  2246.7  9853.0  2241.3  9874.2  2242.9  9900.3
GR   2244.0  9926.2   2242.1    9957.7  2242.5  9966.4  2241.6  9999.3  2242.0 10000.0
GR   2241.0 10018.4   2242.1   10044.1  2242.3 10067.5  2245.7 10093.3  2254.9 10121.7
GR   2256.9 10157.9   2256.5   10178.3  2255.4 10187.7


NC    .045     .045     .035

X1    2070      19    9943.5   10069.5     160     160     160
X3                            9874.2
GR   2246.1  9688.1   2248.9    9778.4  2250.4  9831.4  2251.0  9874.2  2250.4  9898.2
GR   2250.4  9923.7   2246.5    9943.5  2245.8  9962.9  2246.3 10000.0  2245.5 10021.6
GR   2246.7 10025.5   2249.5   10039.2  2246.6 10053.8  2248.5 10069.5  2256.2 10088.3
GR   2259.0 10113.5   2260.3   10163.3  2262.0 10215.1  2264.4 10249.6


QT       4     937     1724     2132     2852

NH       5    .045    9955.2     .035  10070.2     .045  10392.4     .035  10523.7     .045
NH   10710

         QT VALUES EQUAL COMBINED WEIR DISCHARGES (OCSPLIT.OUT).
X1    2170      34    9986.5   10355.2     520     480     530
X3                            10390.0
GR   2275.4  9886.0   2274.5    9895.8  2258.2  9933.0  2261.4  9938.9  2262.4  9955.2
GR   2262.0  9966.8   2259.7    9979.0  2256.6  9986.5  2256.6 10000.0  2258.5 10031.4
GR   2257.6 10050.1   2258.7   10070.2  2258.6 10141.3  2255.9 10216.3  2255.3 10240.7
GR   2257.9 10257.8   2257.2   10275.7  2259.0 10288.9  2257.7 10332.0  2257.2 10354.4
GR   2257.4 10355.2   2258.7   10370.7  2261.6 10390.0  2261.2 10392.4  2256.7 10418.7
GR   2256.7 10424.1   2256.8   10444.2  2258.7 10523.7  2261.2 10534.2  2264.2 10552.9
GR   2265.6 10580.1   2268.0   10627.5  2270.8 10680.4  2270.2   10710


NH       5    .045    9915.0     .035  10022.5     .045   10687     .040   10870     .045
NH   11008
```

	2260	36	9928.2	10010.6	470	480	480			
X3				10629						
GR	2286.5	9504.5	2284.0	9547.8	2279.0	9591.4	2272.8	9676.2	2269.4	9723.0
GR	2271.5	9733.2	2271.2	9826.7	2271.6	9915.0	2268.2	9928.2	2268.4	9967.0
GR	2268.3	9971.7	2267.6	10000.0	2266.8	10010.6	2276.7	10022.5	2277.1	10024.6
GR	2278.3	10061.3	2276.9	10093.0	2271.9	10116.9	2276.6	10142.2	2278.8	10173.0
GR	2278.4	10207.4	2277.8	10217.0	2280.0	10290	2276	10347	2280.0	10410
GR	2282.7	10508	2282.0	10629	2272.0	10687	2269.3	10716	2270.6	10740
GR	2270.0	10766	2271.3	10804	2270.6	10838	2272.0	10870	2280.0	10907
GR	2282.0	11008								
NH	5	.045	9943.1	.035	10110.1	.045	10890.1	.040	11031.6	.045
NH	11209									
X1	2340	43	9963.4	10110.1	380	370	420			
X3				10856.4						
GR	2294.0	9694.6	2286.6	9724.9	2279.8	9775.6	2278.8	9803.3	2279.9	9832.4
GR	2277.9	9885.7	2277.9	9935.4	2276.8	9943.1	2276.0	9963.4	2273.3	10000.0
GR	2273.2	10013.4	2274.8	10036.0	2274.2	10054.9	2273.7	10093.0	2273.6	10110.1
GR	2283.6	10126.1	2283.9	10162.2	2284.2	10194.7	2284.6	10231.8	2286.9	10283.2
GR	2286.3	10309.7	2284.3	10332.6	2286.6	10359.7	2290.0	10499.5	2291.4	10573.2
GR	2289.5	10623.7	2290.3	10668.1	2286.2	10716.7	2289.7	10752.7	2291.2	10790.4
GR	2289.7	10856.4	2274.3	10890.1	2275.2	10908.2	2276.4	10968.2	2274.8	10985.2
GR	2275.8	10992.9	2276.1	11005.6	2275.4	11027.2	2275.5	11031.6	2287.0	11080.5
	2289.7	11141.9	2288.7	11168.0	2288.8	11209				
NH	5	.045	9962.2	.035	10033.3	.045	11139.1	.040	11290.1	.045
NH	11398									
X1	2400	55	9778.6	10014.9	320	320	320			
X3				11139.1						
GR	2305.0	9627.1	2303.2	9663.3	2299.0	9695.4	2291.3	9730.7	2289.1	9757.9
GR	2289.1	9759.2	2287.3	9778.6	2289.0	9795.9	2285.4	9817.6	2288.2	9844.7
GR	2290.4	9912.7	2290.8	9962.2	2288.2	9974.2	2287.4	9975.8	2287.4	9996.1
GR	2287.6	10000.0	2287.6	10014.9	2296.1	10033.3	2290.4	10062.9	2291.9	10094.6
GR	2290.2	10138.6	2292.2	10177.0	2292.1	10220.2	2286.4	10248.6	2290.2	10272.5
GR	2295.2	10326.4	2297.2	10360.0	2296.8	10427.9	2295.3	10464.4	2297.8	10498.4
GR	2296.6	10518.6	2296.6	10550.4	2297.6	10747.7	2297.6	10865.7	2295.4	10909.2
GR	2292.8	10930.8	2295.0	10952.6	2297.5	11015.5	2298.4	11078.6	2297.4	11139.1
GR	2295.6	11155.0	2294.0	11168.9	2286.4	11179.8	2286.9	11187.4	2286.5	11212.6
GR	2287.6	11217.4	2288.4	11227.3	2287.0	11238.9	2288.5	11253.3	2288.5	11290.1
GR	2290.0	11316.3	2293.9	11344.9	2299.8	11357.9	2300.7	11372.0	2302.3	11398
NH	5	.045	9904.6	.035	10061.2	.045	10861.4	.030	11114.0	.055
NH	11406									
X1	2470	49	9916.2	10057.1	370	370	370			
X3				10861.4						
	2305.0	9882.7	2304.7	9904.6	2301.0	9916.2	2298.2	9969.6	2298.2	9974.5
GR	2298.7	10000.0	2299.1	10020.8	2297.7	10036.5	2297.0	10057.1	2304.8	10061.2
GR	2303.6	10075.7	2304.2	10129.9	2304.0	10217.3	2302.6	10266.8	2300.4	10305.8

	2301.2	10355.4	2303.9	10373.5	2303.8	10392.7	2306.8	10422.6	2308.8	10465.6
GR	2308.5	10532.2	2309.1	10614.6	2308.6	10669.8	2307.6	10723.7	2305.8	10728.9
GR	2306.5	10741.7	2306.6	10756.9	2307.6	10761.6	2309.4	10813.5	2309.5	10861.4
GR	2302.8	10890.6	2301.2	10919.3	2300.0	10948.8	2301.1	10982.5	2299.6	11022.5
GR	2303.1	11042.2	2299.1	11056.3	2299.2	11065.7	2300.0	11073.8	2301.7	11092.0
GR	2301.9	11114.0	2308.8	11148.2	2311.1	11195.5	2314.3	11256.9	2315.4	11290.1
GR	2316.4	11328.3	2316.5	11343.7	2320.1	11357.0	2316.4	11406		
NH	5	.045	9985.2	.040	10273.5	.045	10715.7	.030	11071.5	.055
NH	11263									
X1	2580	48	9985.2	10162.9	580	580	580			
X3				10715.7						
GR	2327.7	9792.9	2327.1	9836.7	2324.6	9889.8	2322.6	9902.5	2319.0	9915.6
GR	2316.4	9968.4	2317.0	9985.2	2314.4	9990.6	2313.7	10000.0	2313.7	10012.7
GR	2317.2	10016.6	2316.9	10024.7	2318.0	10036.1	2314.2	10104.7	2318.7	10162.9
GR	2319.2	10218.7	2319.1	10231.8	2325.2	10273.5	2324.7	10317.2	2321.4	10381.0
GR	2319.7	10446.5	2319.4	10449.4	2321.2	10493.5	2321.5	10532.8	2319.7	10562.7
GR	2320.3	10597.4	2321.9	10648.0	2321.5	10691.1	2320.1	10715.7	2313.8	10752.2
GR	2312.7	10768.8	2315.6	10797.5	2314.9	10816.9	2312.9	10852.0	2314.7	10864.3
GR	2315.3	10894.1	2315.2	10923.1	2314.2	10946.5	2311.9	10960.6	2315.4	10993.5
GR	2316.0	11021.1	2313.5	11041.7	2320.5	11071.5	2321.1	11087.3	2322.7	11150.0
GR	2322.4	11183.5	2322.8	11234.8	2320.6	11263				
	5	.045	9883.1	.040	10196.5	.045	10565.2	.040	10797.6	.055
NH	11117									
X1	2650	48	9903.4	10196.5	370	370	370			
X3				10457.2						
GR	2353.8	9815.9	2347.9	9852.5	2337.5	9883.1	2326.0	9903.4	2328.3	9913.7
GR	2329.4	9925.3	2330.0	9958.7	2329.4	9981.6	2326.7	9987.5	2326.6	10000.0
GR	2329.6	10018.4	2327.5	10080.6	2329.4	10114.2	2330.9	10167.3	2332.0	10196.5
GR	2335.9	10224.2	2336.9	10255.3	2336.5	10293.5	2336.0	10349.0	2334.1	10392.4
GR	2335.2	10436.7	2333.8	10457.2	2326.9	10480.1	2329.7	10509.9	2330.7	10565.2
GR	2329.4	10595.5	2326.8	10608.3	2330.8	10623.2	2330.0	10633.8	2331.3	10653.5
GR	2330.6	10678.1	2330.1	10678.3	2330.1	10696.3	2331.5	10718.7	2330.5	10748.7
GR	2331.3	10767.3	2326.6	10775.6	2330.8	10797.6	2332.0	10843.3	2333.2	10902.9
GR	2333.8	10950.4	2329.8	10964.9	2332.1	10979.6	2334.2	10998.2	2334.1	11019.9
GR	2334.6	11063.3	2334.4	11108.5	2332.3	11117				
NH	5	.045	9982	.040	10038	.045	10405	.04	10560	.055
NH	11050									
X1	2720	25	9982	10315	410	410	410			
X3				10353						
GR	2360.0	9953.0	2344.0	9982.0	2341.8	10000.0	2344.0	10038.0	2342.5	10139.0
GR	2343.0	10165	2342.2	10207	2343.3	10225	2344.0	10315	2345.3	10353
GR	2340.0	10405	2342.0	10430	2340.0	10450	2342.6	10512	2340.0	10560
	2344.0	10580	2345.3	10610	2342.4	10670	2344.0	10692	2344.0	10760
GR	2346.8	10835	2346.9	10870	2346.4	10885	2348.0	10900	2349.8	11050

NC	.045	.055	.035							
X1	2780	36	9960.7	10073.7	280	280	280			
X3				10073.7						
GR	2370.2	9870.6	2370.1	9887.3	2361.8	9943.9	2355.8	9960.7	2353.9	9971.0
GR	2351.6	9995.3	2351.8	10000.0	2353.5	10011.5	2353.5	10028.3	2354.1	10073.7
GR	2352.5	10114.4	2350.8	10160.5	2354.4	10189.8	2355.7	10217.6	2355.0	10239.7
GR	2353.7	10260.4	2356.3	10273.1	2358.6	10331.6	2359.8	10371.3	2358.8	10476.9
GR	2358.2	10506.9	2360.6	10559.3	2361.6	10613.4	2361.8	10640.3	2360.4	10649.9
GR	2361.4	10662.1	2360.4	10682.3	2359.5	10704.0	2355.7	10710.8	2357.0	10731.3
GR	2358.4	10748.7	2361.8	10759.6	2363.1	10782.3	2361.2	10786.0	2362.8	10809.5
GR	2364.2	10835.4								
NH	6	.035	9951.9	.03	10024.3	.045	10253.5	.045	10706.9	.035
NH	10784	.055	10889.3							
X1	2850	34	9946.7	10024.3	370	370	370			
X3				10024.3		10294.6				
GR	2373.2	9902.3	2364.6	9915.7	2363.2	9928.9	2364.6	9946.7	2364.1	9951.9
GR	2361.5	10000.0	2360.4	10010.1	2366.5	10024.3	2364.9	10026.2	2364.7	10068.4
GR	2364.7	10088.9	2366.2	10139.0	2367.7	10189.8	2363.8	10217.6	2366.8	10253.5
GR	2368.4	10294.6	2368.6	10370.3	2367.8	10463.0	2367.5	10531.7	2366.9	10583.5
GR	2366.4	10610.9	2367.9	10650.9	2368.9	10685.7	2365.6	10700.8	2365.8	10706.9
	2363.7	10715.9	2361.6	10757.6	2360.6	10771.0	2367.5	10784	2366.4	10793.5
	2365.9	10820.7	2366.3	10829.5	2366.4	10874.6	2365.8	10889.3		

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

*PROF 1

CCHV= .100 CEHV= .300

*SECNO 1710.000

********REVISED STREAMFLOWS FROM CVCRK43R.OUT & OCSPLIT.OUT*******
THIS MODEL COMPUTES PROFILES FOR THE WEST BRAID OF OCOTILLO WASH.
ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-2 MODEL (OCSPLIT.OUT).
STRT W.S. ELEV. IS NORMAL DEPTH.
QT VALUES ARE FROM CP 35.

1710.000	4.94	2206.84	.00	2164.86	2207.55	.72	.00	.00	2201.90
2274.	166.	2086.	22.	29.	302.	7.	0.	0.	2205.10
.00	5.72	6.90	2.97	.045	.035	.045	.000	2201.90	9977.96
.010024	0.	0.	0.	0	0	10	.00	166.09	10144.05

*SECNO 1830.000

3265 DIVIDED FLOW

[illegible] MINIMUM SPECIFIC ENERGY
[illegible] CRITICAL DEPTH ASSUMED

1830.000	4.84	2220.14	2220.14	.00	2221.11	.97	8.19	.08	2215.30
2274.	16.	2253.	5.	5.	284.	3.	5.	3.	2219.30
.03	3.43	7.95	1.87	.045	.035	.045	.000	2215.30	9986.56
.012451	640.	740.	650.	18	6	0	.00	140.48	10185.60

*SECNO 2030.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

2030.000	2.88	2243.88	2243.88	.00	2244.66	.79	17.33	.02	2241.30
2274.	64.	2177.	34.	13.	302.	9.	13.	7.	2242.30
.07	4.90	7.22	3.58	.050	.040	.050	.000	2241.00	9864.09
.020196	1070.	1110.	1060.	10	14	0	.00	210.36	10079.45

*SECNO 2070.000

3265 DIVIDED FLOW

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


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     3.25  2248.75  2248.75      .00  2249.84     1.08     2.63      .09  2246.50
    2274.      53.    2221.       0.      13.     264.       0.      14.       8.   2248.50
      .07     4.13     8.42      .04     .045     .035     .045     .000  2245.50  9932.05
  .013656     160.     160.     160.        8        8        0      .00   130.66 10070.12


1490 NH CARD USED
*SECNO 2170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10390.0   10710.0  TYPE=      1  TARGET=   -10390.000
          QT VALUES EQUAL COMBINED WEIR DISCHARGES (OCSPLIT.OUT).
 2170.000     3.45  2258.75  2258.75      .00  2259.42      .66     7.22      .04100000.00
     937.       0.       0.     937.       0.       0.     143.      17.       9. 100000.00
      .10      .00      .00     6.54     .000     .000     .035     .000  2255.30 10406.71
    16086     520.     530.     480.        5        8        0      .00   117.21 10523.92


1490 NH CARD USED
*SECNO 2260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10629.0   11008.0  TYPE=      1  TARGET=   -10629.000
 2260.000     4.75  2271.55  2271.55      .00  2272.06      .51     8.83      .02100000.00
     937.       0.       0.     937.       0.       0.     164.      18.      11. 100000.00
      .12      .00      .00     5.73     .000     .000     .040     .000  2266.80 10691.79
  .021230     470.     480.     480.        5       18        0      .00   168.00 10859.80


1490 NH CARD USED
*SECNO 2340.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.46


3470 ENCROACHMENT STATIONS=    10856.4   11209.0  TYPE=      1  TARGET=   -10856.400
 2340.000     3.76  2276.96      .00      .00  2277.29      .33     5.21      .02100000.00
     937.       0.       0.     937.       0.       0.     203.      20.      12. 100000.00
      .14      .00      .00     4.62     .000     .000     .040     .000  2273.20 10884.29
     0011     380.     420.     370.        7        0        0      .00   153.51 11037.79
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ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    11139.1   11398.0  TYPE=      1  TARGET=   -11139.100
 2400.000     3.59  2288.99  2288.99      .00  2289.58      .59     3.82      .08100000.00
    937.       0.       0.     937.       0.       0.     152.      21.      13. 100000.00
     .16      .00      .00     6.17     .000     .000     .040     .000  2285.40 11176.09
  .014478     320.     320.     320.       20       10        0      .00   122.49 11298.58


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10861.4   11406.0  TYPE=      1  TARGET=   -10861.400
 2470.000     4.40  2301.40  2301.40      .00  2301.94      .54     4.82      .01100000.00
    937.       0.       0.     937.       0.       0.     160.      23.      14. 100000.00
     .17      .00      .00     5.87     .000     .000     .030     .000  2297.00 10915.68
  .011769     370.     370.     370.       20       11        0      .00   157.58 11088.81


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10715.7   11263.0  TYPE=      1  TARGET=   -10715.700
 2580.000     2.82  2314.72  2314.72      .00  2315.25      .53     6.67      .00100000.00
    937.       0.       0.     937.       0.       0.     161.      25.      16. 100000.00
     .20      .00      .00     5.83     .000     .000     .030     .000  2311.90 10746.88
  .011240     580.     580.     580.       13       14        0      .00   155.02 11046.89
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 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
 TIME    VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
 SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10457.2   11117.0  TYPE=      1  TARGET=   -10457.200
 2650.000     3.81  2329.81  2329.81      .00  2330.54      .73     5.67      .06100000.00
    937.       0.       0.    937.       0.       0.     136.      26.      17. 100000.00
     .22      .00      .00    6.87     .000     .000     .042     .000  2326.00 10470.44
  .022139     370.     370.    370.       20       14        0      .00   101.85 10964.97


1490 NH CARD USED
*SECNO 2720.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10353.0   11050.0  TYPE=      1  TARGET=   -10353.000
 2720.000     2.02  2342.02  2342.02      .00  2342.54      .52     9.76      .02100000.00
    937.       0.       0.    937.       0.       0.     162.      27.      19. 100000.00
     .24      .00      .00    5.79     .000     .000     .041     .000  2340.00 10385.22
  .025642     410.     410.    410.        5       11        0      .00   160.14 10570.08


*SECNO 2780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10073.7   10835.4  TYPE=      1  TARGET=   -10073.700
 2780.000     2.81  2353.61  2353.61      .00  2354.32      .71     8.06      .06100000.00
    937.       0.       0.    937.       0.       0.     138.      28.      19.   2354.10
     .25      .00      .00    6.78     .000     .000     .055     .000  2350.80 10086.14
  .032528     280.     280.    280.       10       11        0      .00    97.23 10183.38
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .19 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10024.3   10294.6  TYPE=      1  TARGET=      270.300
 2850.000     5.59  2365.99  2365.99      .00  2366.59      .60    12.11      .01100000.00
    937.       0.       0.     937.       0.       0.     150.      30.      21.   2366.50
     .26      .00      .00     6.23     .000     .000     .045     .000  2360.40 10024.91
  .032912     370.     370.     370.       10       12        0      .00   148.68 10243.76
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     FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH          (OCWEST.DAT)

J1  ICHECK   INQ     NINV    IDIR    STRT    METRIC  HVINS   Q       WSEL    FQ

             3                   .01                             2165.25

J2  NPROF    IPLOT   PRFVS   XSECV   XSECH   FN .    ALLDC   IBW     CHNIM   ITRACE

    2                -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1710.000
        ********REVISED STREAMFLOWS FROM CVCRK43R.OUT & OCSPLIT.OUT*******
          THIS MODEL COMPUTES PROFILES FOR THE WEST BRAID OF OCOTILLO WASH.
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-2 MODEL (OCSPLIT.OUT).
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 1710.000     5.52  2207.42      .00  2165.25  2208.42     1.00      .00      .00  2201.90
    3445.     225.    3172.      48.      36.     387.      13.       0.       0.   2205.10
      .00     6.20     8.19     3.62     .045     .035     .045     .000  2201.90  9976.57
  .010157       0.       0.       0.        0        0       10      .00   170.34 10146.92


*SECNO 1830.000

3265 DIVIDED FLOW

3685 MINIMUM SPECIFIC ENERGY
3693 CRITICAL DEPTH ASSUMED
 1830.000     5.39  2220.69  2220.69      .00  2222.09     1.40     8.52      .12  2215.30
    3445.      22.    3396.      27.       6.     355.      10.       7.       3.   2219.30
      .02     3.82     9.56     2.69     .045     .035     .045     .000  2215.30  9986.34
  .013341     640.     740.     650.       19        5        0      .00   149.42 10187.39


*SECNO 2030.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.37  2244.37  2244.37      .00  2245.40     1.02    17.48      .04  2241.30
    3445.      99.    3278.      68.      19.     397.      16.      17.       7.   2242.30
      .06     5.33     8.25     4.16     .050     .040     .050     .000  2241.00  9862.14
  .018920    1070.    1110.    1060.       20       14        0      .00   221.09 10083.23


*SECNO 2070.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     3.97  2249.47  2249.47      .00  2250.84     1.37     2.47      .10  2246.50
    3445.     108.    3335.       3.      22.     351.       1.      18.       8.   2248.50
      .06     4.81     9.50     2.19     .045     .035     .045     .000  2245.50  9928.42
  .012832     160.     160.     160.       20       11        0      .00   143.15 10071.87


1490 NH CARD USED
*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10390.0   10710.0  TYPE=      1  TARGET=   -10390.000
          QT VALUES EQUAL COMBINED WEIR DISCHARGES (OCSPLIT.OUT).
 2170.000     4.10  2259.40  2259.40      .00  2260.34      .94     6.72      .04100000.00
    1724.       0.       0.    1724.       0.       0.     221.      22.      10. 100000.00
      .08      .00      .00     7.80     .000     .000     .035     .000  2255.30 10402.94
    14368     520.     530.     480.       20        8        0      .00   123.69 10526.63


1490 NH CARD USED
*SECNO 2260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10629.0   11008.0  TYPE=      1  TARGET=   -10629.000
 2260.000     5.19  2271.99  2271.99      .00  2272.79      .80     8.66      .01100000.00
    1724.       0.       0.    1724.       0.       0.     240.      25.      11. 100000.00
      .10      .00      .00     7.18     .000     .000     .040     .000  2266.80 10687.11
  .023352     470.     480.     480.        5       14        0      .00   182.66 10869.77


1490 NH CARD USED
*SECNO 2340.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.56


3470 ENCROACHMENT STATIONS=    10856.4   11209.0  TYPE=      1  TARGET=   -10856.400
 2340.000     4.39  2277.59      .00      .00  2278.10      .51     5.28      .03100000.00
    1724.       0.       0.    1724.       0.       0.     302.      27.      13. 100000.00
      .12      .00      .00     5.71     .000     .000     .040     .000  2273.20 10882.89
     9614     380.     420.     370.        6        0        0      .00   157.62 11040.51
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    11139.1   11398.0  TYPE=      1  TARGET=   -11139.100
 2400.000     4.17  2289.57  2289.57      .00  2290.47      .90     3.96      .12100000.00
    1724.       0.       0.    1724.       0.       0.     226.      29.      14. 100000.00
      .13      .00      .00     7.62     .000     .000     .040     .000  2285.40 11175.26
  .016538     320.     320.     320.       20       11        0      .00   133.49 11308.74


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10861.4   11406.0  TYPE=      1  TARGET=   -10861.400
 2470.000     4.93  2301.93  2301.93      .00  2302.66      .73     4.89      .02100000.00
    1724.       0.       0.    1724.       0.       0.     252.      31.      15. 100000.00
      .15      .00      .00     6.85     .000     .000     .030     .000  2297.00 10906.12
  .010795     370.     370.     370.       20       11        0      .00   197.38 11114.17


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10715.7   11263.0  TYPE=      1  TARGET=   -10715.700
 2580.000     3.50  2315.40  2315.40      .00  2315.91      .51     5.35      .02100000.00
    1724.       0.       0.    1724.       0.       0.     301.      34.      18. 100000.00
      .17      .00      .00     5.73     .000     .000     .030     .000  2311.90 10742.93
  .007966     580.     580.     580.       16       14        0      .00   266.75 11049.79
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10457.2   11117.0  TYPE=      1  TARGET=   -10457.200
 2650.000     4.67  2330.67  2330.67      .00  2331.25      .58     3.96      .02100000.00
    1724.       0.       0.    1724.       0.       0.     282.      37.      20. 100000.00
      .19      .00      .00     6.12     .000     .000     .042     .000  2326.00 10467.59
  .015166     370.     370.     370.       20       11        0      .00   247.77 10970.46


1490 NH CARD USED
*SECNO 2720.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10353.0   11050.0  TYPE=      1  TARGET=   -10353.000
 2720.000     2.58  2342.58  2342.58      .00  2343.25      .67     7.43      .03100000.00
    1724.       0.       0.    1724.       0.       0.     263.      39.      23. 100000.00
      .21      .00      .00     6.57     .000     .000     .041     .000  2340.00 10379.65
  .022007     410.     410.     410.       10       11        0      .00   198.95 10672.53


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10073.7   10835.4  TYPE=      1  TARGET=   -10073.700
 2780.000     3.60  2354.40  2354.40      .00  2355.28      .88     7.02      .06100000.00
    1724.       0.       0.    1724.       0.       0.     229.      41.      24.   2354.10
      .22      .00      .00     7.53     .000     .000     .055     .000  2350.80 10073.70
  .028847     280.     280.     280.       13       11        0      .00   130.60 10263.81
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION   2850.00 EXTENDED       .83 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10024.3   10294.6  TYPE=      1  TARGET=      270.300
 2850.000     6.23  2366.63  2366.63      .00  2367.33      .69     9.54      .02100000.00
    1724.       0.       0.    1724.       0.       0.     258.      43.      25.   2366.50
      .23      .00      .00     6.68     .000     .000     .045     .000  2360.40 10024.30
  .023173     370.     370.     370.        5       23        0      .00   183.54 10251.52
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T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCWEST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                          .01                                2165.37

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    3                  -1
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```
 ECNO    DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
 Q       QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
 TIME    VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
 SLOPE   XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1710.000
        ********REVISED STREAMFLOWS FROM CVCRK43R.OUT & OCSPLIT.OUT*******
          THIS MODEL COMPUTES PROFILES FOR THE WEST BRAID OF OCOTILLO WASH.
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-2 MODEL (OCSPLIT.OUT).
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 1710.000     5.80  2207.70      .00  2165.37  2208.83     1.13      .00      .00  2201.90
    4047.     255.    3728.      65.      40.     428.      17.       0.       0.   2205.10
      .00     6.37     8.70     3.88     .045     .035     .045     .000  2201.90  9975.89
  .010011       0.       0.       0.        0        0       11      .00   172.42 10148.31


*SECNO 1830.000

3265 DIVIDED FLOW

 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     5.73  2221.03  2221.03      .00  2222.54     1.51     8.15      .11  2215.30
    4047.      25.    3971.      51.       7.     400.      17.       8.       3.   2219.30
      .02     3.82     9.94     3.02     .045     .035     .045     .000  2215.30  9986.21
  .012329     640.     740.     650.       20        5        0      .00   154.94 10188.49


*SECNO 2030.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.61  2244.61  2244.61      .00  2245.74     1.13    16.42      .04  2241.30
    4047.     118.    3841.      88.      21.     443.      20.      19.       8.   2242.30
      .06     5.48     8.68     4.37     .050     .040     .050     .000  2241.00  9861.22
  .018121    1070.    1110.    1060.       13       14        0      .00   223.79 10085.00


*SECNO 2070.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
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```
 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


 2070.000     4.28  2249.78  2249.78      .00  2251.29     1.51      2.38      .11  2246.50
    4047.     138.     3904.      5.      27.      391.      2.       21.       8.   2248.50
      .06     5.05     10.00     2.59     .045     .035     .045      .000  2245.50  9926.84
  .012382     160.      160.     160.      20       11       0       .00   145.79 10072.63


1490 NH CARD USED
*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10390.0   10710.0  TYPE=      1  TARGET=   -10390.000
         QT VALUES EQUAL COMBINED WEIR DISCHARGES (OCSPLIT.OUT).
 2170.000     4.39  2259.69  2259.69      .00  2260.75     1.07      6.48      .04100000.00
    2132.       0.       0.    2132.       0.       0.     257.       25.       10. 100000.00
      .08      .00      .00     8.29     .000     .000     .035      .000  2255.30 10401.25
  .013744     520.     530.     480.      20        8        0       .00   126.60 10527.84


1490 NH CARD USED
*SECNO 2260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10629.0   11008.0  TYPE=      1  TARGET=   -10629.000
 2260.000     5.50  2272.30  2272.30      .00  2273.10      .80      7.57      .03100000.00
    2132.       0.       0.    2132.       0.       0.     297.       28.       12. 100000.00
      .10      .00      .00     7.17     .000     .000     .040      .000  2266.80 10685.26
  .018257     470.     480.     480.       5       11        0       .00   186.13 10871.39


1490 NH CARD USED
*SECNO 2340.000

3470 ENCROACHMENT STATIONS=    10856.4   11209.0  TYPE=      1  TARGET=   -10856.400
 2340.000     4.54  2277.74      .00      .00  2278.40      .66      5.29      .01100000.00
    2132.       0.       0.    2132.       0.       0.     326.       30.       13. 100000.00
      .11      .00      .00     6.53     .000     .000     .040      .000  2273.20 10882.56
  .011504     380.     420.     370.       5        0        0       .00   158.60 11041.16
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST


1490 NH CARD USED
*SECNO 2400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    11139.1   11398.0  TYPE=      1  TARGET=   -11139.100
 2400.000     4.43  2289.83  2289.83      .00  2290.86     1.03     4.39      .11100000.00
    2132.       0.       0.    2132.       0.       0.     262.      33.      14. 100000.00
      .12      .00      .00     8.13     .000     .000     .040     .000  2285.40 11174.88
  .016680     320.     320.     320.       20        5        0      .00   138.50 11313.37


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10861.4   11406.0  TYPE=      1  TARGET=   -10861.400
 2470.000     5.14  2302.14  2302.14      .00  2302.96      .83     4.93      .02100000.00
    2132.       0.       0.    2132.       0.       0.     292.      35.      16. 100000.00
      .14      .00      .00     7.30     .000     .000     .030     .000  2297.00 10902.49
  .010885     370.     370.     370.       20       11        0      .00   203.87 11115.17


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10715.7   11263.0  TYPE=      1  TARGET=   -10715.700
 2580.000     3.67  2315.57  2315.57      .00  2316.15      .58     5.54      .02100000.00
    2132.       0.       0.    2132.       0.       0.     348.      39.      19. 100000.00
      .16      .00      .00     6.13     .000     .000     .030     .000  2311.90 10741.95
  .008440     580.     580.     580.       18       14        0      .00   284.07 11050.51
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10457.2   11117.0  TYPE=      1  TARGET=   -10457.200
 2650.000     4.86  2330.86  2330.86      .00  2331.50      .64     4.19      .02100000.00
    2132.       0.       0.    2132.       0.       0.     333.      42.      21. 100000.00
      .18      .00      .00     6.40     .000     .000     .042     .000  2326.00 10466.94
  .016013     370.     370.     370.       20       11        0      .00   281.70 10971.70


1490 NH CARD USED
*SECNO 2720.000

 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10353.0   11050.0  TYPE=      1  TARGET=   -10353.000
 2720.000     2.81  2342.81  2342.81      .00  2343.55      .74     7.39      .03100000.00
    2132.       0.       0.    2132.       0.       0.     309.      45.      23. 100000.00
      .20      .00      .00     6.89     .000     .000     .041     .000  2340.00 10377.41
  .020412     410.     410.     410.       10       11        0      .00   210.87 10675.67


*SECNO 2780.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10073.7   10835.4  TYPE=      1  TARGET=   -10073.700
 2780.000     3.91  2354.71  2354.71      .00  2355.66      .95     6.57      .06100000.00
    2132.       0.       0.    2132.       0.       0.     272.      47.      25.   2354.10
      .21      .00      .00     7.83     .000     .000     .055     .000  2350.80 10073.70
  .027294     280.     280.     280.       15       11        0      .00   143.85 10265.35
```

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

1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION 2850.00 EXTENDED .97 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 10024.3 10294.6 TYPE= 1 TARGET= 270.300

2850.000	6.37	2366.77	2366.77	.00	2367.65	.88	10.04	.01100000.00	
2132.	0.	0.	2132.	0.	0.	284.	49.	26.	2366.50
.22	.00	.00	7.51	.000	.000	.045	.000	2360.40	10024.30
.026984	370.	370.	370.	10	23	0	.00	190.81	10253.16

```
T1      FLOOD CONTROL DISTRICT OF MARICOPA CO. - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH          (OCWEST.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                          .01                                2165.75

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1710.000

3265 DIVIDED FLOW

        ********REVISED STREAMFLOWS FROM CVCRK43R.OUT & OCSPLIT.OUT*******
          THIS MODEL COMPUTES PROFILES FOR THE WEST BRAID OF OCOTILLO WASH.
          ALL FLOW DATA IS TAKEN FROM CH2M HILL HEC-2 MODEL (OCSPLIT.OUT).
          STRT W.S. ELEV. IS NORMAL DEPTH.
          QT VALUES ARE FROM CP 35.
 1710.000     6.23  2208.13  2207.96  2165.75  2209.47     1.34      .00      .00  2201.90
    5109.     327.    4679.     103.      52.     490.      22.       0.       0.   2205.10
      .00     6.32     9.54     4.58     .045     .035     .045     .000  2201.90  9897.76
  .010041       0.       0.       0.        0       23        0      .00   204.51 10149.86


*SECNO 1830.000

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1830.000     6.31  2221.61  2221.61      .00  2223.26     1.65     7.64      .09  2215.30
    5109.      36.    4959.     114.      11.     475.      33.       9.       3.   2219.30
      .02     3.34    10.44     3.48     .045     .035     .045     .000  2215.30  9977.76
  .010789     640.     740.     650.       20        5        0      .00   172.58 10190.38


*SECNO 2030.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 2030.000     3.99  2244.99  2244.99      .00  2246.29     1.31    14.87      .03  2241.30
    5109.     153.    4827.     129.      27.     516.      27.      23.       8.   2242.30
      .05     5.73     9.35     4.71     .050     .040     .050     .000  2241.00  9859.72
  .017145    1070.    1110.    1060.       14       14        0      .00   228.17 10087.89


*SECNO 2070.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9874.2   10249.6  TYPE=      1  TARGET=    -9874.200
 2070.000     4.85  2250.35  2250.35      .00  2252.04     1.68     2.18      .11  2246.50
    5109.     200.    4896.      13.      38.     462.       4.      25.       9.   2248.50
      .06     5.31    10.59     3.14     .045     .035     .045     .000  2245.50  9923.94
  .011082     160.     160.     160.       20       11        0      .00   150.09 10074.02


1490 NH CARD USED
*SECNO 2170.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10390.0   10710.0  TYPE=      1  TARGET=   -10390.000
          QT VALUES EQUAL COMBINED WEIR DISCHARGES (OCSPLIT.OUT).
 2170.000     4.87  2260.17  2260.17      .00  2261.41     1.24     5.86      .04100000.00
    2852.       0.       0.    2852.       0.       0.     319.      30.      10. 100000.00
      .07      .00      .00     8.94     .000     .000     .035     .000  2255.30 10398.45
  .012653     520.     530.     480.       20        5        0      .00   131.41 10529.86


1490 NH CARD USED
*SECNO 2260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10629.0   11008.0  TYPE=      1  TARGET=   -10629.000
 2260.000     5.79  2272.59  2272.59      .00  2273.61     1.02     7.42      .02100000.00
    2852.       0.       0.    2852.       0.       0.     351.      33.      12. 100000.00
      .09      .00      .00     8.12     .000     .000     .040     .000  2266.80 10683.59
  .019318     470.     480.     480.        8       11        0      .00   189.13 10872.72


1490 NH CARD USED
*SECNO 2340.000

3470 ENCROACHMENT STATIONS=    10856.4   11209.0  TYPE=      1  TARGET=   -10856.400
 2340.000     4.97  2278.17      .00      .00  2278.99      .81     5.35      .02100000.00
    2852.       0.       0.    2852.       0.       0.     395.      37.      14. 100000.00
      .10      .00      .00     7.23     .000     .000     .040     .000  2273.20 10881.62
  .011238     380.     420.     370.        5        0        0      .00   161.35 11042.97
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ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2400.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    11139.1   11398.0  TYPE=      1  TARGET=   -11139.100
 2400.000     4.86  2290.26  2290.26      .00  2291.47     1.21     4.30      .12100000.00
    2852.       0.       0.    2852.       0.       0.     323.      39.      15. 100000.00
      .11      .00      .00     8.82     .000     .000     .040     .000  2285.40 11174.26
  .016356     320.     320.     320.       20        5        0      .00   143.96 11318.22


1490 NH CARD USED
*SECNO 2470.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10861.4   11406.0  TYPE=      1  TARGET=   -10861.400
 2470.000     5.49  2302.49  2302.49      .00  2303.43      .94     4.71      .03100000.00
    2852.       0.       0.    2852.       0.       0.     367.      42.      16. 100000.00
      .13      .00      .00     7.77     .000     .000     .030     .000  2297.00 10896.09
  .010180     370.     370.     370.       20       11        0      .00   215.30 11116.94


1490 NH CARD USED
*SECNO 2580.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10715.7   11263.0  TYPE=      1  TARGET=   -10715.700
 2580.000     3.88  2315.78  2315.78      .00  2316.53      .75     5.78      .02100000.00
    2852.       0.       0.    2852.       0.       0.     409.      47.      20. 100000.00
      .15      .00      .00     6.97     .000     .000     .030     .000  2311.90 10740.72
  .009772     580.     580.     580.       20       13        0      .00   298.84 11051.41
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


1490 NH CARD USED
*SECNO 2650.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10457.2   11117.0  TYPE=      1  TARGET=   -10457.200
 2650.000     5.15  2331.15  2331.15      .00  2331.86     .71     4.63      .00100000.00
    2852.       0.       0.    2852.       0.       0.    422.      51.      22. 100000.00
      .17      .00      .00     6.75     .000     .000    .042     .000  2326.00 10465.98
  .016595     370.     370.     370.       20       11       0      .00   331.75 10973.55


1490 NH CARD USED
*SECNO 2720.000

DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    10353.0   11050.0  TYPE=      1  TARGET=   -10353.000
 2720.000     3.14  2343.14  2343.14      .00  2344.01     .87     7.35      .05100000.00
    2852.       0.       0.    2852.       0.       0.    382.      55.      25. 100000.00
      .18      .00      .00     7.46     .000     .000    .041     .000  2340.00 10374.15
  .019444     410.     410.     410.       11       14       0      .00   227.21 10680.23


*SECNO 2780.000

3265 DIVIDED FLOW

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

3470 ENCROACHMENT STATIONS=    10073.7   10835.4  TYPE=      1  TARGET=   -10073.700
 2780.000     4.41  2355.21  2355.21      .00  2356.24    1.04     6.14      .05100000.00
    2852.       0.       0.    2852.       0.       0.    349.      57.      26.   2354.10
      .19      .00      .00     8.17     .000     .000    .055     .000  2350.80 10073.70
  .024957     280.     280.     280.       20       11       0      .00   168.04 10267.77
```

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

1490 NH CARD USED
*SECNO 2850.000

3265 DIVIDED FLOW

3280 CROSS SECTION 2850.00 EXTENDED 1.36 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 10024.3 10294.6 TYPE= 1 TARGET= 270.300

2850.000	6.76	2367.16	2367.16	.00	2368.12	.95	8.97	.01	100000.00
2852.	0.	0.	2852.	0.	0.	364.	60.	28.	2366.50
.20	.00	.00	7.84	.000	.000	.045	.000	2360.40	10024.30
.023543	370.	370.	370.	14	20	0	.00	216.60	10262.86

THIS RUN EXECUTED 9/25/90 10:52:26

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1710.000	2206.84	2274.00	4.94	5.72	6.90	2.97	165.74	2086.25	22.01	166.09	100.24	.00
	1710.000	2207.42	3445.00	5.52	6.20	8.19	3.62	224.60	3172.48	47.92	170.34	101.57	.00
	1710.000	2207.70	4047.00	5.80	6.37	8.70	3.88	254.75	3727.60	64.65	172.42	100.11	.00
	1710.000	2208.13	5109.00	6.23	6.32	9.54	4.58	327.23	4678.88	102.89	204.51	100.41	.00
*	1830.000	2220.14	2274.00	4.84	3.43	7.95	1.87	16.06	2252.59	5.34	140.48	124.51	13.30
*	1830.000	2220.69	3445.00	5.39	3.82	9.56	2.69	22.18	3395.87	26.95	149.42	133.41	13.27
*	1830.000	2221.03	4047.00	5.73	3.82	9.94	3.02	25.12	3970.95	50.93	154.94	123.29	13.33
*	1830.000	2221.61	5109.00	6.31	3.34	10.44	3.48	36.29	4958.64	114.07	172.58	107.89	13.49
*	2030.000	2243.88	2274.00	2.88	4.90	7.22	3.58	63.73	2176.56	33.72	210.36	201.96	23.74
*	2030.000	2244.37	3445.00	3.37	5.33	8.25	4.16	98.75	3278.44	67.81	221.09	189.20	23.68
*	2030.000	2244.61	4047.00	3.61	5.48	8.68	4.37	117.58	3841.11	88.31	223.79	181.21	23.58
*	2030.000	2244.99	5109.00	3.99	5.73	9.35	4.71	152.90	4827.05	129.05	228.17	171.45	23.37
*	2070.000	2248.75	2274.00	3.25	4.13	8.42	.04	53.24	2220.75	.00	130.66	136.57	4.88
*	2070.000	2249.47	3445.00	3.97	4.81	9.50	2.19	107.65	3334.83	2.52	143.15	128.32	5.10
*	2070.000	2249.78	4047.00	4.28	5.05	10.00	2.59	138.05	3903.74	5.21	145.79	123.82	5.18
*	2070.000	2250.35	5109.00	4.85	5.31	10.59	3.14	200.32	4895.53	13.15	150.09	110.82	5.37
*	2170.000	2258.75	937.00	3.45	.00	.00	6.54	.00	.00	937.00	117.21	160.86	10.00
*	2170.000	2259.40	1724.00	4.10	.00	.00	7.80	.00	.00	1724.00	123.69	143.68	9.93
*	2170.000	2259.69	2132.00	4.39	.00	.00	8.29	.00	.00	2132.00	126.60	137.44	9.90
*	2170.000	2260.17	2852.00	4.87	.00	.00	8.94	.00	.00	2852.00	131.41	126.53	9.81
*	2260.000	2271.55	937.00	4.75	.00	.00	5.73	.00	.00	937.00	168.00	212.30	12.80
*	2260.000	2271.99	1724.00	5.19	.00	.00	7.18	.00	.00	1724.00	182.66	233.52	12.59
*	2260.000	2272.30	2132.00	5.50	.00	.00	7.17	.00	.00	2132.00	186.13	182.57	12.61
*	2260.000	2272.59	2852.00	5.79	.00	.00	8.12	.00	.00	2852.00	189.13	193.18	12.42
*	2340.000	2276.96	937.00	3.76	.00	.00	4.62	.00	.00	937.00	153.51	100.11	5.40
*	2340.000	2277.59	1724.00	4.39	.00	.00	5.71	.00	.00	1724.00	157.62	96.14	5.60
	2340.000	2277.74	2132.00	4.54	.00	.00	6.53	.00	.00	2132.00	158.60	115.04	5.44
	2340.000	2278.17	2852.00	4.97	.00	.00	7.23	.00	.00	2852.00	161.35	112.38	5.59

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	2400.000	2288.99	937.00	3.59	.00	.00	6.17	.00	.00	937.00	122.49	144.78	12.03
*	2400.000	2289.57	1724.00	4.17	.00	.00	7.62	.00	.00	1724.00	133.49	165.38	11.97
*	2400.000	2289.83	2132.00	4.43	.00	.00	8.13	.00	.00	2132.00	138.50	166.80	12.09
*	2400.000	2290.26	2852.00	4.86	.00	.00	8.82	.00	.00	2852.00	143.96	163.56	12.09
*	2470.000	2301.40	937.00	4.40	.00	.00	5.87	.00	.00	937.00	157.58	117.69	12.42
*	2470.000	2301.93	1724.00	4.93	.00	.00	6.85	.00	.00	1724.00	197.38	107.95	12.37
*	2470.000	2302.14	2132.00	5.14	.00	.00	7.30	.00	.00	2132.00	203.87	108.85	12.30
*	2470.000	2302.49	2852.00	5.49	.00	.00	7.77	.00	.00	2852.00	215.30	101.80	12.23
*	2580.000	2314.72	937.00	2.82	.00	.00	5.83	.00	.00	937.00	155.02	112.40	13.32
*	2580.000	2315.40	1724.00	3.50	.00	.00	5.73	.00	.00	1724.00	266.75	79.66	13.46
*	2580.000	2315.57	2132.00	3.67	.00	.00	6.13	.00	.00	2132.00	284.07	84.40	13.43
*	2580.000	2315.78	2852.00	3.88	.00	.00	6.97	.00	.00	2852.00	298.84	97.72	13.29
*	2650.000	2329.81	937.00	3.81	.00	.00	6.87	.00	.00	937.00	101.85	221.39	15.09
*	2650.000	2330.67	1724.00	4.67	.00	.00	6.12	.00	.00	1724.00	247.77	151.66	15.27
*	2650.000	2330.86	2132.00	4.86	.00	.00	6.40	.00	.00	2132.00	281.70	160.13	15.29
*	2650.000	2331.15	2852.00	5.15	.00	.00	6.75	.00	.00	2852.00	331.75	165.95	15.37
*	2720.000	2342.02	937.00	2.02	.00	.00	5.79	.00	.00	937.00	160.14	256.42	12.20
*	2720.000	2342.58	1724.00	2.58	.00	.00	6.57	.00	.00	1724.00	198.95	220.07	11.91
*	2720.000	2342.81	2132.00	2.81	.00	.00	6.89	.00	.00	2132.00	210.87	204.12	11.95
*	2720.000	2343.14	2852.00	3.14	.00	.00	7.46	.00	.00	2852.00	227.21	194.44	11.99
*	2780.000	2353.61	937.00	2.81	.00	.00	6.78	.00	.00	937.00	97.23	325.28	11.59
*	2780.000	2354.40	1724.00	3.60	.00	.00	7.53	.00	.00	1724.00	130.60	288.47	11.81
*	2780.000	2354.71	2132.00	3.91	.00	.00	7.83	.00	.00	2132.00	143.85	272.94	11.90
*	2780.000	2355.21	2852.00	4.41	.00	.00	8.17	.00	.00	2852.00	168.04	249.57	12.06
*	2850.000	2365.99	937.00	5.59	.00	.00	6.23	.00	.00	937.00	148.68	329.12	12.38
*	2850.000	2366.63	1724.00	6.23	.00	.00	6.68	.00	.00	1724.00	183.54	231.73	12.24
*	2850.000	2366.77	2132.00	6.37	.00	.00	7.51	.00	.00	2132.00	190.81	269.84	12.06
*	2850.000	2367.16	2852.00	6.76	.00	.00	7.84	.00	.00	2852.00	216.60	235.43	11.96

ILLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1710.000	.00	.00	.00	2201.90	2274.00	2206.84	.00	2207.55	100.24	6.90	338.67	227.13
	1710.000	.00	.00	.00	2201.90	3445.00	2207.42	.00	2208.42	101.57	8.19	436.61	341.83
	1710.000	.00	.00	.00	2201.90	4047.00	2207.70	.00	2208.83	100.11	8.70	485.02	404.48
	1710.000	.00	.00	.00	2201.90	5109.00	2208.13	2207.96	2209.47	100.41	9.54	564.78	509.87
*	1830.000	740.00	.00	.00	2215.30	2274.00	2220.14	2220.14	2221.11	124.51	7.95	291.05	203.80
*	1830.000	740.00	.00	.00	2215.30	3445.00	2220.69	2220.69	2222.09	133.41	9.56	371.10	298.26
*	1830.000	740.00	.00	.00	2215.30	4047.00	2221.03	2221.03	2222.54	123.29	9.94	423.01	364.47
*	1830.000	740.00	.00	.00	2215.30	5109.00	2221.61	2221.61	2223.26	107.89	10.44	518.81	491.86
*	2030.000	1110.00	.00	.00	2241.00	2274.00	2243.88	2243.88	2244.66	201.96	7.22	323.95	160.01
*	2030.000	1110.00	.00	.00	2241.00	3445.00	2244.37	2244.37	2245.40	189.20	8.25	432.11	250.45
*	2030.000	1110.00	.00	.00	2241.00	4047.00	2244.61	2244.61	2245.74	181.21	8.68	484.25	300.64
*	2030.000	1110.00	.00	.00	2241.00	5109.00	2244.99	2244.99	2246.29	171.45	9.35	570.20	390.18
*	2070.000	160.00	.00	.00	2245.50	2274.00	2248.75	2248.75	2249.84	136.57	8.42	276.76	194.59
*	2070.000	160.00	.00	.00	2245.50	3445.00	2249.47	2249.47	2250.84	128.32	9.50	374.73	304.12
*	2070.000	160.00	.00	.00	2245.50	4047.00	2249.78	2249.78	2251.29	123.82	10.00	419.88	363.70
	2070.000	160.00	.00	.00	2245.50	5109.00	2250.35	2250.35	2252.04	110.82	10.59	504.36	485.32
*	2170.000	530.00	.00	.00	2255.30	937.00	2258.75	2258.75	2259.42	160.86	.00	143.31	73.88
*	2170.000	530.00	.00	.00	2255.30	1724.00	2259.40	2259.40	2260.34	143.68	.00	221.01	143.83
*	2170.000	530.00	.00	.00	2255.30	2132.00	2259.69	2259.69	2260.75	137.44	.00	257.21	181.86
*	2170.000	530.00	.00	.00	2255.30	2852.00	2260.17	2260.17	2261.41	126.53	.00	319.01	253.54
*	2260.000	480.00	.00	.00	2266.80	937.00	2271.55	2271.55	2272.06	212.30	.00	163.62	64.31
*	2260.000	480.00	.00	.00	2266.80	1724.00	2271.99	2271.99	2272.79	233.52	.00	240.11	112.82
*	2260.000	480.00	.00	.00	2266.80	2132.00	2272.30	2272.30	2273.10	182.57	.00	297.46	157.79
*	2260.000	480.00	.00	.00	2266.80	2852.00	2272.59	2272.59	2273.61	193.18	.00	351.33	205.20
*	2340.000	420.00	.00	.00	2273.20	937.00	2276.96	.00	2277.29	100.11	.00	202.86	93.65
*	2340.000	420.00	.00	.00	2273.20	1724.00	2277.59	.00	2278.10	96.14	.00	302.10	175.83
	2340.000	420.00	.00	.00	2273.20	2132.00	2277.74	.00	2278.40	115.04	.00	326.30	198.77
	2340.000	420.00	.00	.00	2273.20	2852.00	2278.17	.00	2278.99	112.38	.00	394.61	269.04
*	2400.000	320.00	.00	.00	2285.40	937.00	2288.99	2288.99	2289.58	144.78	.00	151.80	77.87
*	2400.000	320.00	.00	.00	2285.40	1724.00	2289.57	2289.57	2290.47	165.38	.00	226.29	134.06
*	2400.000	320.00	.00	.00	2285.40	2132.00	2289.83	2289.83	2290.86	166.80	.00	262.35	165.08
*	2400.000	320.00	.00	.00	2285.40	2852.00	2290.26	2290.26	2291.47	163.56	.00	323.22	223.01
*	2470.000	370.00	.00	.00	2297.00	937.00	2301.40	2301.40	2301.94	117.69	.00	159.55	86.37
*	2470.000	370.00	.00	.00	2297.00	1724.00	2301.93	2301.93	2302.66	107.95	.00	251.54	165.93
*	2470.000	370.00	.00	.00	2297.00	2132.00	2302.14	2302.14	2302.96	108.85	.00	292.14	204.35
	2470.000	370.00	.00	.00	2297.00	2852.00	2302.49	2302.49	2303.43	101.80	.00	366.95	282.67

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	2580.000	580.00	.00	.00	2311.90	937.00	2314.72	2314.72	2315.25	112.40	.00	160.64	88.38
*	2580.000	580.00	.00	.00	2311.90	1724.00	2315.40	2315.40	2315.91	79.66	.00	300.74	193.16
*	2580.000	580.00	.00	.00	2311.90	2132.00	2315.57	2315.57	2316.15	84.40	.00	347.61	232.06
*	2580.000	580.00	.00	.00	2311.90	2852.00	2315.78	2315.78	2316.53	97.72	.00	409.47	288.50
*	2650.000	370.00	.00	.00	2326.00	937.00	2329.81	2329.81	2330.54	221.39	.00	136.35	62.97
*	2650.000	370.00	.00	.00	2326.00	1724.00	2330.67	2330.67	2331.25	151.66	.00	281.69	139.99
*	2650.000	370.00	.00	.00	2326.00	2132.00	2330.86	2330.86	2331.50	160.13	.00	333.33	168.48
*	2650.000	370.00	.00	.00	2326.00	2852.00	2331.15	2331.15	2331.86	165.95	.00	422.22	221.39
*	2720.000	410.00	.00	.00	2340.00	937.00	2342.02	2342.02	2342.54	256.42	.00	161.77	58.51
*	2720.000	410.00	.00	.00	2340.00	1724.00	2342.58	2342.58	2343.25	220.07	.00	262.60	116.21
*	2720.000	410.00	.00	.00	2340.00	2132.00	2342.81	2342.81	2343.55	204.12	.00	309.44	149.23
*	2720.000	410.00	.00	.00	2340.00	2852.00	2343.14	2343.14	2344.01	194.44	.00	382.12	204.53
*	2780.000	280.00	.00	.00	2350.80	937.00	2353.61	2353.61	2354.32	325.28	.00	138.24	51.95
*	2780.000	280.00	.00	.00	2350.80	1724.00	2354.40	2354.40	2355.28	288.47	.00	229.08	101.50
*	2780.000	280.00	.00	.00	2350.80	2132.00	2354.71	2354.71	2355.66	272.94	.00	272.26	129.05
*	2780.000	280.00	.00	.00	2350.80	2852.00	2355.21	2355.21	2356.24	249.57	.00	349.15	180.53
*	2850.000	370.00	.00	.00	2360.40	937.00	2365.99	2365.99	2366.59	329.12	.00	150.34	51.65
*	2850.000	370.00	.00	.00	2360.40	1724.00	2366.63	2366.63	2367.33	231.73	.00	258.11	113.25
*	2850.000	370.00	.00	.00	2360.40	2132.00	2366.77	2366.77	2367.65	269.84	.00	283.79	129.79
*	2850.000	370.00	.00	.00	2360.40	2852.00	2367.16	2367.16	2368.12	235.43	.00	363.69	185.87

ILLO WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1710.000	2274.00	2206.84	.00	.00	41.98	166.09	.00
	1710.000	3445.00	2207.42	.58	.00	42.17	170.34	.00
	1710.000	4047.00	2207.70	.28	.00	42.33	172.42	.00
	1710.000	5109.00	2208.13	.43	.00	42.38	204.51	.00
*	1830.000	2274.00	2220.14	.00	13.30	.00	140.48	740.00
*	1830.000	3445.00	2220.69	.55	13.27	.00	149.42	740.00
*	1830.000	4047.00	2221.03	.34	13.33	.00	154.94	740.00
*	1830.000	5109.00	2221.61	.58	13.49	.00	172.58	740.00
*	2030.000	2274.00	2243.88	.00	23.74	.00	210.36	1110.00
*	2030.000	3445.00	2244.37	.50	23.68	.00	221.09	1110.00
*	2030.000	4047.00	2244.61	.23	23.58	.00	223.79	1110.00
*	2030.000	5109.00	2244.99	.38	23.37	.00	228.17	1110.00
*	2070.000	2274.00	2248.75	.00	4.88	.00	130.66	160.00
*	2070.000	3445.00	2249.47	.72	5.10	.00	143.15	160.00
*	2070.000	4047.00	2249.78	.31	5.18	.00	145.79	160.00
	2070.000	5109.00	2250.35	.57	5.37	.00	150.09	160.00
*	2170.000	937.00	2258.75	.00	10.00	.00	117.21	530.00
*	2170.000	1724.00	2259.40	.65	9.93	.00	123.69	530.00
*	2170.000	2132.00	2259.69	.29	9.90	.00	126.60	530.00
*	2170.000	2852.00	2260.17	.48	9.81	.00	131.41	530.00
*	2260.000	937.00	2271.55	.00	12.80	.00	168.00	480.00
*	2260.000	1724.00	2271.99	.44	12.59	.00	182.66	480.00
*	2260.000	2132.00	2272.30	.31	12.61	.00	186.13	480.00
*	2260.000	2852.00	2272.59	.29	12.42	.00	189.13	480.00
*	2340.000	937.00	2276.96	.00	5.40	.00	153.51	420.00
*	2340.000	1724.00	2277.59	.64	5.60	.00	157.62	420.00
	2340.000	2132.00	2277.74	.15	5.44	.00	158.60	420.00
	2340.000	2852.00	2278.17	.43	5.59	.00	161.35	420.00
*	2400.000	937.00	2288.99	.00	12.03	.00	122.49	320.00
*	2400.000	1724.00	2289.57	.58	11.97	.00	133.49	320.00
*	2400.000	2132.00	2289.83	.27	12.09	.00	138.50	320.00
*	2400.000	2852.00	2290.26	.43	12.09	.00	143.96	320.00
*	2470.000	937.00	2301.40	.00	12.42	.00	157.58	370.00
*	2470.000	1724.00	2301.93	.53	12.37	.00	197.38	370.00
*	2470.000	2132.00	2302.14	.20	12.30	.00	203.87	370.00
*	2470.000	2852.00	2302.49	.36	12.23	.00	215.30	370.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2580.000	937.00	2314.72	.00	13.32	.00	155.02	580.00
*	2580.000	1724.00	2315.40	.68	13.46	.00	266.75	580.00
*	2580.000	2132.00	2315.57	.17	13.43	.00	284.07	580.00
*	2580.000	2852.00	2315.78	.21	13.29	.00	298.84	580.00
*	2650.000	937.00	2329.81	.00	15.09	.00	101.85	370.00
*	2650.000	1724.00	2330.67	.86	15.27	.00	247.77	370.00
*	2650.000	2132.00	2330.86	.19	15.29	.00	281.70	370.00
*	2650.000	2852.00	2331.15	.29	15.37	.00	331.75	370.00
*	2720.000	937.00	2342.02	.00	12.20	.00	160.14	410.00
*	2720.000	1724.00	2342.58	.57	11.91	.00	198.95	410.00
*	2720.000	2132.00	2342.81	.23	11.95	.00	210.87	410.00
*	2720.000	2852.00	2343.14	.33	11.99	.00	227.21	410.00
*	2780.000	937.00	2353.61	.00	11.59	.00	97.23	280.00
*	2780.000	1724.00	2354.40	.79	11.81	.00	130.60	280.00
*	2780.000	2132.00	2354.71	.31	11.90	.00	143.85	280.00
*	2780.000	2852.00	2355.21	.50	12.06	.00	168.04	280.00
*	2850.000	937.00	2365.99	.00	12.38	.00	148.68	370.00
*	2850.000	1724.00	2366.63	.65	12.24	.00	183.54	370.00
*	2850.000	2132.00	2366.77	.14	12.06	.00	190.81	370.00
	2850.000	2852.00	2367.16	.39	11.96	.00	216.60	370.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1830.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1830.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1830.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1830.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2030.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2030.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2030.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2030.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2030.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2030.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2030.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2030.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2030.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2070.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2070.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2070.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   2070.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2170.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2170.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2170.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2170.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2170.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2170.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2260.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2260.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   2260.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

WARNING SECNO=   2340.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=   2340.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=   2400.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2400.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2400.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2400.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2400.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2400.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   2470.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2470.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
 [illegible]ON SECNO=   2470.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
 [illegible]ON SECNO=   2470.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2470.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2470.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2470.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2470.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2580.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2580.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2650.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2650.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2650.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2650.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   2650.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
 [illegible]ON SECNO=   2650.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
 [illegible]ON SECNO=   2650.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2650.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2650.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=   2720.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2720.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2720.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2720.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2720.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   2780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2780.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2780.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   2850.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2850.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2850.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2850.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2850.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2850.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   2850.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   2850.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
```

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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE     9/24/90    TIME    16:37: 0           *
*******************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
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OCT 2.00
9-20-90

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 9/24/90 16:37: 1

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************



      SECTION 150, OCOTILLO WASH TRIBUTARY #2
      AREA BETWEEN STN 10030.0 -10175.7 CONSIDERED INEFFECTIVE DUE TO
         TOPOGRAPHICALLY LOW AREA AT CONFLUENCE WITH MINOR TRIBUTARY, AREA IS
         NOT PART OF MAIN FLOW PATH.  LIMIT EFFECTIVE FLOW AREA TO MAIN FLOW
         CHANNEL.

T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 2  (OCT2.DAT)


J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

                2                         .020                                2215.89

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                 -1


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150


QT       4       145       222       260       330

NC     .048      .048      .042        .1        .3
       **** STREAM REACH DISTANCES REVISED 9-20-90
       *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
         COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
         SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
         FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
         QT VALUES ARE 22% OF SUBWTRSHD G3
X1     1830        15      9980     10020
X3   2240.0      9740    2236.0      9780    2232.0      9820    2228.0      9960    2220.0      9970
     2216.0      9980    2215.0      9985    2215.0     10015    2216.0     10020    2220.0     10140
GR   2224.0     10290    2228.0     10310    2229.0     10350    2229.0     10450    2230.0     10470
```

NC	.05	.05	.04	.1	.3					
X1	70	22	9963.7	10000.0	720	760	740			
GR	2241.5	9822.3	2249.1	9855.5	2246.3	9865.3	2245.2	9889.8	2237.4	9905.9
GR	2233.4	9932.1	2235.2	9940.5	2235.6	9947.0	2233.9	9963.7	2231.7	9985.2
GR	2234.1	9998.7	2234.3	10000.0	2233.7	10024.7	2235.1	10052.6	2236.7	10088.8
GR	2238.6	10114.5	2237.9	10150.4	2240.9	10180.3	2241.7	10204.1	2242.6	10223.7
GR	2247.0	10261.1	2247.0	10282.2						
NH	4	.05	9852.2	.04	9923.6	.05	10030.0	999	10175.7	
X1	150	14	9852.2	9923.6	400	360	420			
GR	2258.2	9772.3	2257.1	9797.4	2246.4	9829.8	2244.7	9852.2	2241.9	9870.6
GR	2244.0	9889.6	2244.0	9923.6	2244.8	9957.8	2243.9	10000.0	2244.8	10035.6
GR	2243.1	10090.7	2245.8	10117.5	2252.1	10150.0	2253.2	10175.7		
NC	.045	.045	.045							
X1	230	14	9978.9	10014.0	410	440	420			
GR	2270.4	9853.6	2262.2	9915.7	2256.2	9939.3	2257.4	9959.6	2256.6	9978.9
GR	2253.4	9997.9	2253.2	10000.0	2257.8	10014.0	2259.3	10016.5	2265.9	10039.5
GR	2269.0	10058.0	2270.0	10065.4	2273.6	10132.2	2274.1	10138.8		
X1	310	12	9981.0	10008.1	440	450	420			
GR	2281.4	9895.5	2282.4	9927.5	2276.4	9945.4	2270.5	9966.4	2268.9	9981.0
GR	2267.8	9994.6	2266.3	10000.0	2268.4	10008.1	2271.5	10022.8	2276.9	10065.7
GR	2283.8	10101.7	2285.6	10130.5						
X1	420	15	10000.0	10024.2	570	560	580			
GR	2302.0	9907.0	2299.8	9928.2	2292.7	9949.8	2291.3	9958.0	2288.1	9981.0
GR	2284.9	10000.0	2284.5	10009.2	2286.2	10024.2	2286.1	10026.1	2291.1	10044.0
GR	2296.2	10070.0	2299.6	10098.6	2300.5	10128.2	2301.5	10187.1	2301.6	10215.3
NC	.04	.04	.04							
X1	480	11	9997.6	10024.7	380	400	380			
GR	2311.5	9855.4	2309.4	9966.2	2308.2	9973.0	2300.6	9984.0	2294.9	9997.6
GR	2295.1	10000.0	2298.1	10007.0	2297.6	10024.7	2298.0	10031.1	2298.7	10047.0
GR	2312.0	10170.0								
X1	570	23	9987.0	10023.8	470	490	480			
GR	2322.4	9620.1	2321.8	9722.5	2320.0	9742.4	2321.5	9774.2	2321.4	9893.2
GR	2321.1	9921.8	2318.2	9950.5	2314.9	9973.1	2310.9	9987.0	2308.7	9996.8
	2309.3	10000.0	2310.0	10018.8	2310.7	10023.8	2315.3	10034.5	2317.5	10055.2
	2321.3	10082.6	2322.2	10113.3	2321.1	10156.8	2321.6	10193.4	2321.0	10232.9
GR	2321.6	10262.5	2322.1	10289.0	2323.1	10301.9				

NC	.045	.045	.035							
X1	670	9	9975.7	10027.1	530	530	530			
GR	2338.1	9840.9	2337.9	9907.2	2332.6	9971.8	2331.3	9975.7	2326.0	10000.0
GR	2330.6	10027.1	2334.6	10071.6	2337.7	10115.6	2337.1	10182.2		
X1	780	12	9973.8	10023.2	570	570	580			
GR	2355.5	9805.3	2355.4	9889.3	2355.8	9945.3	2354.6	9968.9	2352.4	9973.8
GR	2347.7	9996.0	2347.8	10000.0	2350.0	10023.2	2351.2	10045.6	2355.2	10068.1
GR	2356.6	10085.1	2357.3	10117.7						
X1	880	10	9971.7	10022.0	510	510	530			
GR	2373.8	9713.0	2373.5	9764.2	2373.1	9864.9	2369.9	9946.7	2367.6	9971.7
GR	2362.9	10000.0	2362.0	10007.2	2366.9	10022.0	2369.7	10051.7	2370.0	10083.0
X1	990	17	9975.0	10009.6	570	590	580			
GR	2395.9	9650.5	2394.9	9703.5	2392.2	9737.9	2390.9	9754.6	2391.3	9776.6
GR	2391.3	9834.2	2390.7	9889.4	2388.5	9941.7	2387.8	9955.7	2385.3	9975.0
GR	2382.8	10000.0	2383.5	10009.6	2386.5	10017.1	2389.6	10049.5	2391.6	10102.5
GR	2390.8	10129.6	2390.9	10132.9						
X1	1070	16	9984.9	10022.8	420	410	420			
GR	2405.1	9803.3	2406.5	9862.9	2404.1	9896.0	2403.1	9946.5	2400.5	9984.9
GR	2400.6	9987.0	2400.4	10000.0	2400.3	10010.0	2400.9	10022.8	2402.8	10046.0
GR	2402.8	10059.3	2402.8	10074.5	2404.1	10135.6	2404.3	10176.5	2405.7	10225.8
GR	2407.9	10261.8								

```
SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
          SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
          FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
          QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000      .95  2215.95      .00  2215.89  2216.25      .30      .00      .00  2216.00
    145.        0.     145.       0.       0.      33.       0.       0.       0.   2216.00
     .00       .00     4.41      .00     .000     .042     .000     .000  2215.00  9980.27
  .019987       0.       0.       0.        0        0        5      .00    39.46 10019.73


CCHV=     .100 CEHV=     .300
*SECNO 70.000

DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     1.86  2233.56  2233.56      .00  2234.02      .46    16.10      .05  2233.90
    145.        0.     145.       0.       0.      27.       0.       1.       1.   2234.30
     .04       .05     5.43      .00     .050     .040     .000     .000  2231.70  9931.03
  .023765     720.     740.     760.        4       17        0      .00    30.50  9995.68


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

  150.000     1.83  2243.73  2243.73      .00  2244.20      .47    10.18      .00  2244.70
    145.        0.     145.       0.       0.      26.       9.       1.       1.   2244.00
     .06       .00     5.49      .00     .000     .040  999.000     .000  2241.90  9858.52
  .024726     400.     420.     360.        6        5        0      .00    55.75 10097.04


*SECNO 230.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
  230.000      2.20   2255.40   2255.40       .00   2255.98       .59     11.40       .04   2256.60
     145.        0.      145.        0.        0.       24.        0.        1.        1.   2257.80
      .08       .00      6.14       .00      .000      .045      .000      .000   2253.20   9986.04
  .029916      410.      420.      440.        20        11         0       .00     20.65  10006.69


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000      2.42   2268.72   2268.72       .00   2269.22       .50     12.58       .01   2268.90
     145.        0.      145.        0.        0.       25.        0.        1.        2.   2268.40
      .10       .00      5.71      1.66      .000      .045      .045      .000   2266.30   9983.23
  .029961      440.      420.      450.         5         8         0       .00     26.38  10009.61


*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  0.000      1.55   2286.05   2286.05       .00   2286.52       .46     17.07       .00   2284.90
     145.       15.      130.        0.        4.       23.        0.        2.        2.   2286.20
      .13      3.85      5.63       .00      .045      .045      .000      .000   2284.50   9993.16
  .028965      570.      580.      560.         5        14         0       .00     29.73  10022.89


*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  480.000      2.68   2297.58   2297.58       .00   2298.27       .69      9.04       .07   2294.90
     145.       52.       93.        0.        9.       13.        0.        2.        2.   2297.60
      .14      6.03      6.97       .00      .040      .040      .000      .000   2294.90   9991.20
  .019879      380.      380.      400.         4        14         0       .00     14.58  10005.79


*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000      1.76   2310.46   2310.46       .00   2310.89       .43     10.85       .03   2310.90
     145.        0.      145.        0.        0.       27.        0.        2.        2.   2310.70
      .17       .00      5.27       .00      .000      .040      .000      .000   2308.70   9988.97
  .026115      470.      480.      490.         4        23         0       .00     33.11  10022.07
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.15  2328.15  2328.15      .00  2328.71      .56     11.54      .04  2331.30
     145.       0.     145.       0.       0.      24.       0.        2.       3.   2330.60
      .19      .00      5.98      .00     .000     .035     .000      .000  2326.00  9990.13
  .018434     530.     530.     530.        4       11        0       .00    22.54 10012.68


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     1.68  2349.38  2349.38      .00  2349.85      .47     10.88      .01  2352.40
     145.       0.     145.       0.       0.      26.       0.        3.       3.   2350.00
      .22      .00      5.52      .00     .000     .035     .000      .000  2347.70  9988.08
  .019087     570.     580.     570.        3       15        0       .00    28.56 10016.64


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  880.000     2.14  2364.14  2364.14      .00  2364.72      .58      9.87      .03  2367.60
     145.       0.     145.       0.       0.      24.       0.        3.       3.   2366.90
      .25      .00      6.09      .00     .000     .035     .000      .000  2362.00  9992.51
  .018183     510.     530.     510.        5       11        0       .00    21.17 10013.68


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     1.62  2384.42  2384.42      .00  2384.90      .48     10.53      .01  2385.30
     145.       0.     142.       3.       0.      25.       1.        3.       4.   2383.50
      .28      .00      5.62      2.52    .000     .035     .045      .000  2382.80  9983.80
  .018108     570.     580.     590.        4       19        0       .00    28.09 10011.90


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000      .95  2401.25  2401.25      .00  2401.57      .33      7.65      .02  2400.50
     145.       9.     134.       1.       4.      28.       1.        4.       4.   2400.90
      .30     2.31      4.74      1.38    .045     .035     .045      .000  2400.30  9973.89
  .018348     420.     420.     410.        4       11        0       .00    53.13 10027.02
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 2   (OCT2.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .020                                2216.12

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    2                  -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
          SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
          FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
          QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.19  2216.19      .00  2216.12  2216.61      .42      .00      .00  2216.00
    222.       0.     222.       0.       0.      43.       1.       0.       0.   2216.00
     .00      .04     5.20      .91     .048     .042     .048     .000  2215.00  9979.52
  .019977       0.       0.       0.        0        0        5      .00    46.18 10025.71


CCHV=     .100 CEHV=     .300
*SECNO 70.000

DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.24  2233.94  2233.94      .00  2234.42      .48    14.58      .02  2233.90
    222.       3.     217.       2.       2.      39.       2.       1.       1.   2234.30
     .04     1.71     5.60     1.02     .050     .040     .050     .000  2231.70  9928.53
  .019426     720.     740.     760.        4       17        0      .00    55.60 10029.57


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.29  2244.19  2244.19      .00  2244.51      .32     9.28      .02  2244.70
    222.       0.     217.       5.       0.      47.      29.       1.       2.   2244.00
     .06      .00     4.62      .18     .000     .040     .796     .000  2241.90  9855.58
  .025516     400.     420.     360.        2        8        0      .00   146.51 10101.47
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 230.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     2.64  2255.84  2255.84      .00  2256.52      .68     11.14      .11  2256.60
     222.       0.     222.       0.       0.      34.       0.        2.       3.   2257.80
      .08      .00     6.63      .00     .000     .045     .000      .000  2253.20  9983.44
  .027568     410.     420.     440.        3        8        0       .00    24.58 10008.02


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     2.76  2269.06  2269.06      .00  2269.69      .62     11.62      .01  2268.90
     222.       0.     219.       3.       0.      34.       1.        2.       3.   2268.40
      .10     1.03     6.37     2.59     .045     .045     .045      .000  2266.30  9979.52
  .027734     440.     420.     450.        4        8        0       .00    31.72 10011.24


*SECNO 420.000
 20 TRIALS ATTEMPTED WSEL,CWSEL
 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     1.88  2286.38  2286.38      .00  2286.94      .57     15.60      .01  2284.90
     222.      28.     193.       1.       6.      31.       1.        3.       3.   2286.20
      .13     4.32     6.26     1.84     .045     .045     .045      .000  2284.50  9991.23
  .026169     570.     580.     560.       20       19        0       .00    35.86 10027.09


*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  480.000     3.32  2298.22  2298.22      .00  2298.72      .49      8.37      .01  2294.90
     222.      89.     124.       8.      13.      26.       3.        3.       4.   2297.60
      .15     6.77     4.84     2.57     .040     .040     .040      .000  2294.90  9989.67
  .018773     380.     380.     400.        5       18        0       .00    46.50 10036.17


*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.05  2310.75  2310.75      .00  2311.29      .54     10.16      .01  2310.90
     222.       0.     222.       0.       0.      38.       0.        3.       4.   2310.70
      .17      .00     5.90      .06     .000     .040     .040      .000  2308.70  9987.67
  .024260     470.     480.     490.        5       14        0       .00    36.24 10023.91
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
  Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
  TIME    VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE   XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.55  2328.55  2328.55      .00  2329.21      .66     10.80      .03  2331.30
     222.       0.     222.       0.       0.      34.       0.        4.       5.   2330.60
      .19      .00      6.50      .00     .000     .035     .000      .000  2326.00  9988.29
  .017347     530.     530.     530.       10       11        0       .00    26.75 10015.04


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     2.02  2349.72  2349.72      .00  2350.28      .56     10.26      .01  2352.40
     222.       0.     222.       0.       0.      37.       0.        4.       5.   2350.00
      .22      .00      6.01      .00     .000     .035     .000      .000  2347.70  9986.46
  .018025     570.     580.     570.        4       15        0       .00    33.77 10020.24


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  880.000     2.56  2364.56  2364.56      .00  2365.25      .69      9.32      .04  2367.60
     222.       0.     222.       0.       0.      33.       0.        5.       5.   2366.90
      .24      .00      6.65      .00     .000     .035     .000      .000  2362.00  9990.00
  .017152     510.     530.     510.        9       11        0       .00    24.93 10014.93


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     1.97  2384.77  2384.77      .00  2385.35      .58      9.89      .01  2385.30
     222.       0.     216.       6.       0.      35.       2.        5.       6.   2383.50
      .27      .00      6.20     3.02     .000     .035     .045      .000  2382.80  9980.33
  .016961     570.     580.     590.        3       15        0       .00    32.43 10012.77


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000     1.17  2401.47  2401.47      .00  2401.89      .42      7.07      .02  2400.50
     222.      18.     200.       4.       7.      37.       2.        6.       6.   2400.90
      .29     2.64      5.40     1.85     .045     .035     .045      .000  2400.30  9970.53
  .016739     420.     420.     410.        4       14        0       .00    59.26 10029.80
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      100-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 2   (OCT2.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                         .020                                2216.24

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                 -1
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
          SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
          FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
          QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.29  2216.29  2216.24  2216.24  2216.76      .47      .00      .00  2216.00
    260.       0.     258.       2.       0.     47.       1.       0.       0.   2216.00
     .00     1.16     5.53     1.22     .048     .042     .048     .000  2215.00  9979.27
  .019971      0.       0.       0.        0        5        0      .00    49.53 10028.80


CCHV=     .100 CEHV=     .300
*SECNO 70.000

DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.39  2234.09  2234.09      .00  2234.57      .48    13.79      .00  2233.90
    260.       5.     249.       6.       3.     44.       5.       1.       1.   2234.30
     .04     1.84     5.67     1.32     .050     .040     .050     .000  2231.70  9927.57
  .017431     720.     740.     760.        3       17        0      .00    68.47 10032.49


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.37  2244.27  2244.27      .00  2244.60      .33     8.32      .01  2244.70
    260.       0.     249.      11.       0.     53.      37.       1.       2.   2244.00
     .06      .00     4.72      .29     .000     .040     .479     .000  2241.90  9855.01
  .022957     400.     420.     360.        9        5        0      .00   161.99 10102.33
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 230.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

230.000	2.80	2256.00	2256.00	.00	2256.74	.74	10.59	.12	2256.60
260.	0.	260.	0.	0.	38.	0.	2.	3.	2257.80
.08	.00	6.91	.00	.000	.045	.000	.000	2253.20	9982.47
.027756	410.	420.	440.	10	11	0	.00	26.04	10008.52

*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

310.000	2.91	2269.21	2269.21	.00	2269.88	.67	11.23	.01	2268.90
260.	1.	255.	5.	0.	39.	2.	2.	3.	2268.40
.10	1.54	6.61	2.87	.045	.045	.045	.000	2266.30	9978.14
.025723	440.	420.	450.	3	8	0	.00	33.82	10011.96

*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

420.000	2.01	2286.51	2286.51	.00	2287.12	.61	14.63	.01	2284.90
260.	35.	223.	2.	8.	34.	1.	3.	4.	2286.20
.12	4.47	6.53	2.38	.045	.045	.045	.000	2284.50	9990.41
.024815	570.	580.	560.	3	19	0	.00	37.17	10027.58

*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

480.000	3.49	2298.39	2298.39	.00	2298.86	.47	7.55	.01	2294.90
260.	94.	151.	15.	15.	30.	5.	3.	4.	2297.60
.14	6.50	5.00	2.77	.040	.040	.040	.000	2294.90	9989.28
.016231	380.	380.	400.	8	16	0	.00	50.60	10039.88

*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

570.000	2.18	2310.88	2310.88	.00	2311.46	.59	9.18	.04	2310.90
260.	0.	260.	0.	0.	42.	0.	4.	5.	2310.70
.16	.00	6.15	.06	.000	.040	.040	.000	2308.70	9987.10
.023043	470.	480.	490.	4	14	0	.00	37.11	10024.21

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


*SECNO 670.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.72  2328.72  2328.72      .00  2329.42      .70    10.43      .03  2331.30
     260.       0.     260.       0.       0.      39.       0.       4.       5.   2330.60
      .19      .00     6.71      .00     .000     .035     .000     .000  2326.00  9987.53
  .016987     530.     530.     530.       20       11        0      .00    28.49 10016.02


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     2.16  2349.86  2349.86      .00  2350.46      .59    10.00      .01  2352.40
     260.       0.     260.       0.       0.      42.       0.       5.       5.   2350.00
      .21      .00     6.19      .00     .000     .035     .000     .000  2347.70  9985.77
  .017511     570.     580.     570.        4       15        0      .00    36.00 10021.77


 O 880.000
 5 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  880.000     2.73  2364.73  2364.73      .00  2365.47      .73     9.10      .04  2367.60
     260.       0.     260.       0.       0.      38.       0.       5.       6.   2366.90
      .23      .00     6.87      .00     .000     .035     .000     .000  2362.00  9988.96
  .016825     510.     530.     510.        9       11        0      .00    26.49 10015.46


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     2.11  2384.91  2384.91      .00  2385.54      .63     9.71      .01  2385.30
     260.       0.     252.       8.       0.      39.       2.       6.       6.   2383.50
      .26      .00     6.43     3.22     .000     .035     .045     .000  2382.80  9978.89
  .016657     570.     580.     590.        3       15        0      .00    34.24 10013.13


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000     1.27  2401.57  2401.57      .00  2402.03      .46     6.90      .02  2400.50
     260.      23.     231.       6.       8.      41.       3.       6.       7.   2400.90
      .28     2.77     5.67     2.03     .045     .035     .045     .000  2400.30  9969.07
  .016203     420.     420.     410.        5       14        0      .00    61.93 10031.00
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T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      500-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB. 2   (OCT2.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .020                               2216.44

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1830.000
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT*********
          COMMON SECTION IS SEC. 1830 FROM OCOTILLO WASH (HTA)
          SEC. 000 = SEC. 1.90 OF OCOTILLO WASH
          FLOWS ARE PROPORTIONAL TO AREA OF SUB-BASIN
          QT VALUES ARE 22% OF SUBWTRSHD G3
 1830.000     1.46  2216.46  2216.44  2216.44  2217.02      .57      .00      .00  2216.00
    330.       0.     324.       5.       0.     53.       3.       0.       0.   2216.00
     .00     1.57     6.08     1.65     .048     .042     .048     .000  2215.00  9978.85
  .020275       0.       0.       0.        0        5        0      .00    54.89 10033.75


CCHV=     .100 CEHV=     .300
*SECNO 70.000

DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   70.000     2.62  2234.32  2234.32      .00  2234.79      .47    12.79      .01  2233.90
    330.      11.     299.      20.       6.     52.      12.       1.       1.   2234.30
     .04     2.01     5.73     1.69     .050     .040     .050     .000  2231.70  9926.06
  .014890     720.     740.     760.       20       17        0      .00    87.91 10037.11


1490 NH CARD USED
*SECNO 150.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  150.000     2.54  2244.44  2244.44      .00  2244.76      .32     6.76      .02  2244.70
    330.       0.     303.      27.       0.     64.      55.       2.       2.   2244.00
     .06      .00     4.70      .49     .000     .040     .265     .000  2241.90  9853.91
  .017876     400.     420.     360.        9        8        0      .00   191.90 10104.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 230.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  230.000     3.10  2256.30  2256.30      .00  2257.10      .80      9.04      .15  2256.60
     330.       0.     330.       0.       0.      46.       0.       3.       4.   2257.80
      .08      .05      7.19      .00     .045     .045     .000     .000  2253.20  9938.91
  .026317     410.     420.     440.       10       11        0      .00    30.83 10009.43


*SECNO 310.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  310.000     3.17  2269.47  2269.47      .00  2270.21      .74     10.39      .01  2268.90
     330.       3.     318.       9.       1.      45.       3.       3.       4.   2268.40
      .10     2.16      7.01     3.26     .045     .045     .045     .000  2266.30  9975.83
  .023229     440.     420.     450.        9        8        0      .00    37.33 10013.16


*SECNO 420.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  420.000     2.24  2286.74  2286.74      .00  2287.43      .69     13.50      .01  2284.90
     330.      47.     277.       6.      10.      40.       2.       4.       4.   2286.20
      .12     4.73      7.00     3.05     .045     .045     .045     .000  2284.50  9989.08
  .023425     570.     580.     560.        5       19        0      .00    39.30 10028.38


*SECNO 480.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  480.000     3.65  2298.55  2298.55      .00  2299.10      .55      7.58      .01  2294.90
     330.     109.     194.      26.      16.      35.       8.       4.       5.   2297.60
      .14     6.88      5.63     3.19     .040     .040     .040     .000  2294.90  9988.89
  .017124     380.     380.     400.       11       15        0      .00    54.69 10043.58


*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.39  2311.08  2311.08      .00  2311.76      .68      9.12      .04  2310.90
     330.       0.     330.       0.       0.      50.       0.       5.       5.   2310.70
      .16      .05      6.61     1.71     .040     .040     .040     .000  2308.70  9986.36
    21328     470.     480.     490.       10       14        0      .00    38.34 10024.70
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 670.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  670.000     2.99  2328.99  2328.99      .00  2329.76      .77      9.91      .03  2331.30
     330.       0.     330.       0.       0.      47.       0.       6.       6.   2330.60
      .18      .00      7.05      .00     .000     .035     .000     .000  2326.00  9986.29
  .016518     530.     530.     530.       10       11        0      .00    31.32 10017.61


*SECNO 780.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  780.000     2.39  2350.09  2350.09      .00  2350.75      .67      9.70      .01  2352.40
     330.       0.     330.       0.       0.      50.       0.       6.       6.   2350.00
      .21      .00      6.56      .04     .000     .035     .045     .000  2347.70  9984.73
  .016923     570.     580.     570.        9       15        0      .00    40.06 10024.79


*SECNO 880.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  880.000     3.02  2365.02  2365.02      .00  2365.83      .81      8.80      .04  2367.60
     330.       0.     330.       0.       0.      46.       0.       7.       7.   2366.90
      .23      .00      7.21      .00     .000     .035     .000     .000  2362.00  9987.25
  .016276     510.     530.     510.       10       11        0      .00    29.07 10016.32


*SECNO 990.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  990.000     2.36  2385.16  2385.16      .00  2385.85      .69      9.34      .01  2385.30
     330.       0.     318.      12.       0.      47.       3.       7.       7.   2383.50
      .25      .00      6.75     3.50     .000     .035     .045     .000  2382.80  9976.40
  .015912     570.     580.     590.        3       15        0      .00    37.34 10013.75


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000     1.44  2401.74  2401.74      .00  2402.25      .51      6.55      .02  2400.50
     330.      34.     286.      10.      11.      47.       4.       8.       8.   2400.90
      .27     2.97      6.07     2.29     .045     .035     .045     .000  2400.30  9966.57
  .015307     420.     420.     410.        6       14        0      .00    66.50 10033.07
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THIS RUN EXECUTED 9/24/90 16:37:29

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH, TRIB. 2

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	1830.000	2215.95	145.00	.95	.00	4.41	.00	.00	145.00	.00	39.46	199.87	.00
	1830.000	2216.19	222.00	1.19	.04	5.20	.91	.00	221.50	.49	46.18	199.77	.00
	1830.000	2216.29	260.00	1.29	1.16	5.53	1.22	.12	258.31	1.57	49.53	199.71	.00
	1830.000	2216.46	330.00	1.46	1.57	6.08	1.65	.41	324.39	5.20	54.89	202.75	.00
*	70.000	2233.56	145.00	1.86	.05	5.43	.00	.01	144.99	.00	30.50	237.65	17.62
*	70.000	2233.94	222.00	2.24	1.71	5.60	1.02	2.86	217.28	1.86	55.60	194.26	17.75
*	70.000	2234.09	260.00	2.39	1.84	5.67	1.32	5.27	248.56	6.17	68.47	174.31	17.80
*	70.000	2234.32	330.00	2.62	2.01	5.73	1.69	11.35	298.64	20.01	87.91	148.90	17.86
	150.000	2243.73	145.00	1.83	.00	5.49	.00	.00	145.00	.00	55.75	247.26	10.17
*	150.000	2244.19	222.00	2.29	.00	4.62	.18	.00	216.73	5.27	146.51	255.16	10.24
*	150.000	2244.27	260.00	2.37	.00	4.72	.29	.00	249.33	10.66	161.99	229.57	10.18
*	150.000	2244.44	330.00	2.54	.00	4.70	.49	.00	303.09	26.91	191.90	178.76	10.12
*	230.000	2255.40	145.00	2.20	.00	6.14	.00	.00	145.00	.00	20.65	299.16	11.66
*	230.000	2255.84	222.00	2.64	.00	6.63	.00	.00	222.00	.00	24.58	275.68	11.65
*	230.000	2256.00	260.00	2.80	.00	6.91	.00	.00	260.00	.00	26.04	277.56	11.73
*	230.000	2256.30	330.00	3.10	.05	7.19	.00	.01	329.99	.00	30.83	263.17	11.86
*	310.000	2268.72	145.00	2.42	.00	5.71	1.66	.00	144.60	.40	26.38	299.61	13.32
*	310.000	2269.06	222.00	2.76	1.03	6.37	2.59	.12	219.18	2.70	31.72	277.34	13.23
*	310.000	2269.21	260.00	2.91	1.54	6.61	2.87	.69	254.81	4.50	33.82	257.23	13.22
*	310.000	2269.47	330.00	3.17	2.16	7.01	3.26	3.17	318.03	8.80	37.33	232.29	13.17
*	420.000	2286.05	145.00	1.55	3.85	5.63	.00	15.17	129.83	.00	29.73	289.65	17.33
*	420.000	2286.38	222.00	1.88	4.32	6.26	1.84	27.99	192.96	1.05	35.86	261.69	17.31
*	420.000	2286.51	260.00	2.01	4.47	6.53	2.38	34.59	223.03	2.38	37.17	248.15	17.30
	420.000	2286.74	330.00	2.24	4.73	7.00	3.05	47.49	276.87	5.64	39.30	234.25	17.27
*	480.000	2297.58	145.00	2.68	6.03	6.97	.00	51.73	93.27	.00	14.58	198.79	11.53
*	480.000	2298.22	222.00	3.32	6.77	4.84	2.57	89.16	124.41	8.43	46.50	187.73	11.85
*	480.000	2298.39	260.00	3.49	6.50	5.00	2.77	94.20	150.69	15.11	50.60	162.31	11.87
*	480.000	2298.55	330.00	3.65	6.88	5.63	3.19	109.29	194.45	26.26	54.69	171.24	11.81

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	570.000	2310.46	145.00	1.76	.00	5.27	.00	.00	145.00	.00	33.11	261.15	12.88
*	570.000	2310.75	222.00	2.05	.00	5.90	.06	.00	222.00	.00	36.24	242.60	12.53
*	570.000	2310.88	260.00	2.18	.00	6.15	.06	.00	260.00	.00	37.11	230.43	12.49
*	570.000	2311.08	330.00	2.39	.05	6.61	1.71	.00	329.70	.29	38.34	213.28	12.54
*	670.000	2328.15	145.00	2.15	.00	5.98	.00	.00	145.00	.00	22.54	184.34	17.69
*	670.000	2328.55	222.00	2.55	.00	6.50	.00	.00	222.00	.00	26.75	173.47	17.80
*	670.000	2328.72	260.00	2.72	.00	6.71	.00	.00	260.00	.00	28.49	169.87	17.84
*	670.000	2328.99	330.00	2.99	.00	7.05	.00	.00	330.00	.00	31.32	165.18	17.90
*	780.000	2349.38	145.00	1.68	.00	5.52	.00	.00	145.00	.00	28.56	190.87	21.23
*	780.000	2349.72	222.00	2.02	.00	6.01	.00	.00	222.00	.00	33.77	180.25	21.17
*	780.000	2349.86	260.00	2.16	.00	6.19	.00	.00	260.00	.00	36.00	175.11	21.15
*	780.000	2350.09	330.00	2.39	.00	6.56	.04	.00	330.00	.00	40.06	169.23	21.10
*	880.000	2364.14	145.00	2.14	.00	6.09	.00	.00	145.00	.00	21.17	181.83	14.77
*	880.000	2364.56	222.00	2.56	.00	6.65	.00	.00	222.00	.00	24.93	171.52	14.84
*	880.000	2364.73	260.00	2.73	.00	6.87	.00	.00	260.00	.00	26.49	168.25	14.87
*	880.000	2365.02	330.00	3.02	.00	7.21	.00	.00	330.00	.00	29.07	162.76	14.93
*	990.000	2384.42	145.00	1.62	.00	5.62	2.52	.00	142.34	2.66	28.09	181.08	20.28
*	990.000	2384.77	222.00	1.97	.00	6.20	3.02	.00	215.94	6.05	32.43	169.61	20.21
*	990.000	2384.91	260.00	2.11	.00	6.43	3.22	.00	251.99	8.01	34.24	166.57	20.18
	990.000	2385.16	330.00	2.36	.00	6.75	3.50	.00	317.94	12.05	37.34	159.12	20.14
*	1070.000	2401.25	145.00	.95	2.31	4.74	1.38	9.50	134.49	1.01	53.13	183.48	16.83
*	1070.000	2401.47	222.00	1.17	2.64	5.40	1.85	18.44	199.84	3.71	59.26	167.39	16.71
*	1070.000	2401.57	260.00	1.27	2.77	5.67	2.03	23.49	230.93	5.59	61.93	162.03	16.66
*	1070.000	2401.74	330.00	1.44	2.97	6.07	2.29	33.75	286.37	9.88	66.50	153.07	16.58

ILLO WASH, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1830.000	.00	.00	.00	2215.00	145.00	2215.95	.00	2216.25	199.87	4.41	32.86	10.26
	1830.000	.00	.00	.00	2215.00	222.00	2216.19	.00	2216.61	199.77	5.20	43.20	15.71
	1830.000	.00	.00	.00	2215.00	260.00	2216.29	2216.24	2216.76	199.71	5.53	48.13	18.40
	1830.000	.00	.00	.00	2215.00	330.00	2216.46	2216.44	2217.02	202.75	6.08	56.74	23.18
*	70.000	740.00	.00	.00	2231.70	145.00	2233.56	2233.56	2234.02	237.65	5.43	26.86	9.41
*	70.000	740.00	.00	.00	2231.70	222.00	2233.94	2233.94	2234.42	194.26	5.60	42.27	15.93
*	70.000	740.00	.00	.00	2231.70	260.00	2234.09	2234.09	2234.57	174.31	5.67	51.37	19.69
*	70.000	740.00	.00	.00	2231.70	330.00	2234.32	2234.32	2234.79	148.90	5.73	69.58	27.04
	150.000	420.00	.00	.00	2241.90	145.00	2243.73	2243.73	2244.20	247.26	5.49	35.03	9.22
*	150.000	420.00	.00	.00	2241.90	222.00	2244.19	2244.19	2244.51	255.16	4.62	76.08	13.90
*	150.000	420.00	.00	.00	2241.90	260.00	2244.27	2244.27	2244.60	229.57	4.72	89.49	17.16
*	150.000	420.00	.00	.00	2241.90	330.00	2244.44	2244.44	2244.76	178.76	4.70	119.21	24.68
*	230.000	420.00	.00	.00	2253.20	145.00	2255.40	2255.40	2255.98	299.16	6.14	23.61	8.38
*	230.000	420.00	.00	.00	2253.20	222.00	2255.84	2255.84	2256.52	275.68	6.63	33.50	13.37
*	230.000	420.00	.00	.00	2253.20	260.00	2256.00	2256.00	2256.74	277.56	6.91	37.62	15.61
	230.000	420.00	.00	.00	2253.20	330.00	2256.30	2256.30	2257.10	263.17	7.19	45.99	20.34
*	310.000	420.00	.00	.00	2266.30	145.00	2268.72	2268.72	2269.22	299.61	5.71	25.57	8.38
*	310.000	420.00	.00	.00	2266.30	222.00	2269.06	2269.06	2269.69	277.34	6.37	35.57	13.33
*	310.000	420.00	.00	.00	2266.30	260.00	2269.21	2269.21	2269.88	257.23	6.61	40.55	16.21
*	310.000	420.00	.00	.00	2266.30	330.00	2269.47	2269.47	2270.21	232.29	7.01	49.54	21.65
*	420.000	580.00	.00	.00	2284.50	145.00	2286.05	2286.05	2286.52	289.65	5.63	26.99	8.52
*	420.000	580.00	.00	.00	2284.50	222.00	2286.38	2286.38	2286.94	261.69	6.26	37.87	13.72
*	420.000	580.00	.00	.00	2284.50	260.00	2286.51	2286.51	2287.12	248.15	6.53	42.91	16.50
*	420.000	580.00	.00	.00	2284.50	330.00	2286.74	2286.74	2287.43	234.25	7.00	51.46	21.56
*	480.000	380.00	.00	.00	2294.90	145.00	2297.58	2297.58	2298.27	198.79	6.97	21.95	10.28
*	480.000	380.00	.00	.00	2294.90	222.00	2298.22	2298.22	2298.72	187.73	4.84	42.16	16.20
*	480.000	380.00	.00	.00	2294.90	260.00	2298.39	2298.39	2298.86	162.31	5.00	50.08	20.41
*	480.000	380.00	.00	.00	2294.90	330.00	2298.55	2298.55	2299.10	171.24	5.63	58.66	25.22
*	570.000	480.00	.00	.00	2308.70	145.00	2310.46	2310.46	2310.89	261.15	5.27	27.50	8.97
*	570.000	480.00	.00	.00	2308.70	222.00	2310.75	2310.75	2311.29	242.60	5.90	37.60	14.25
*	570.000	480.00	.00	.00	2308.70	260.00	2310.88	2310.88	2311.46	230.43	6.15	42.28	17.13
*	570.000	480.00	.00	.00	2308.70	330.00	2311.08	2311.08	2311.76	213.28	6.61	50.15	22.60
*	670.000	530.00	.00	.00	2326.00	145.00	2328.15	2328.15	2328.71	184.34	5.98	24.25	10.68
*	670.000	530.00	.00	.00	2326.00	222.00	2328.55	2328.55	2329.21	173.47	6.50	34.15	16.86
*	670.000	530.00	.00	.00	2326.00	260.00	2328.72	2328.72	2329.42	169.87	6.71	38.75	19.95
	670.000	530.00	.00	.00	2326.00	330.00	2328.99	2328.99	2329.76	165.18	7.05	46.82	25.68

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	780.000	580.00	.00	.00	2347.70	145.00	2349.38	2349.38	2349.85	190.87	5.52	26.28	10.50
*	780.000	580.00	.00	.00	2347.70	222.00	2349.72	2349.72	2350.28	180.25	6.01	36.92	16.54
*	780.000	580.00	.00	.00	2347.70	260.00	2349.86	2349.86	2350.46	175.11	6.19	42.00	19.65
*	780.000	580.00	.00	.00	2347.70	330.00	2350.09	2350.09	2350.75	169.23	6.56	50.35	25.37
*	880.000	530.00	.00	.00	2362.00	145.00	2364.14	2364.14	2364.72	181.83	6.09	23.80	10.75
*	880.000	530.00	.00	.00	2362.00	222.00	2364.56	2364.56	2365.25	171.52	6.65	33.39	16.95
*	880.000	530.00	.00	.00	2362.00	260.00	2364.73	2364.73	2365.47	168.25	6.87	37.83	20.04
*	880.000	530.00	.00	.00	2362.00	330.00	2365.02	2365.02	2365.83	162.76	7.21	45.76	25.87
*	990.000	580.00	.00	.00	2382.80	145.00	2384.42	2384.42	2384.90	181.08	5.62	26.36	10.78
*	990.000	580.00	.00	.00	2382.80	222.00	2384.77	2384.77	2385.35	169.61	6.20	36.86	17.05
*	990.000	580.00	.00	.00	2382.80	260.00	2384.91	2384.91	2385.54	166.57	6.43	41.69	20.15
*	990.000	580.00	.00	.00	2382.80	330.00	2385.16	2385.16	2385.85	159.12	6.75	50.57	26.16
*	1070.000	420.00	.00	.00	2400.30	145.00	2401.25	2401.25	2401.57	183.48	4.74	33.21	10.70
*	1070.000	420.00	.00	.00	2400.30	222.00	2401.47	2401.47	2401.89	167.39	5.40	45.98	17.16
*	1070.000	420.00	.00	.00	2400.30	260.00	2401.57	2401.57	2402.03	162.03	5.67	51.97	20.43
*	1070.000	420.00	.00	.00	2400.30	330.00	2401.74	2401.74	2402.25	153.07	6.07	62.84	26.67

TILLO WASH, TRIB. 2

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1830.000	145.00	2215.95	.00	.00	.06	39.46	.00
	1830.000	222.00	2216.19	.24	.00	.07	46.18	.00
	1830.000	260.00	2216.29	.10	.00	.05	49.53	.00
	1830.000	330.00	2216.46	.17	.00	.02	54.89	.00
*	70.000	145.00	2233.56	.00	17.62	.00	30.50	740.00
*	70.000	222.00	2233.94	.38	17.75	.00	55.60	740.00
*	70.000	260.00	2234.09	.15	17.80	.00	68.47	740.00
*	70.000	330.00	2234.32	.23	17.86	.00	87.91	740.00
	150.000	145.00	2243.73	.00	10.17	.00	55.75	420.00
*	150.000	222.00	2244.19	.45	10.24	.00	146.51	420.00
*	150.000	260.00	2244.27	.09	10.18	.00	161.99	420.00
*	150.000	330.00	2244.44	.17	10.12	.00	191.90	420.00
*	230.000	145.00	2255.40	.00	11.66	.00	20.65	420.00
*	230.000	222.00	2255.84	.44	11.65	.00	24.58	420.00
*	230.000	260.00	2256.00	.16	11.73	.00	26.04	420.00
	230.000	330.00	2256.30	.30	11.86	.00	30.83	420.00
*	310.000	145.00	2268.72	.00	13.32	.00	26.38	420.00
*	310.000	222.00	2269.06	.34	13.23	.00	31.72	420.00
*	310.000	260.00	2269.21	.15	13.22	.00	33.82	420.00
*	310.000	330.00	2269.47	.25	13.17	.00	37.33	420.00
*	420.000	145.00	2286.05	.00	17.33	.00	29.73	580.00
*	420.000	222.00	2286.38	.33	17.31	.00	35.86	580.00
*	420.000	260.00	2286.51	.14	17.30	.00	37.17	580.00
*	420.000	330.00	2286.74	.22	17.27	.00	39.30	580.00
*	480.000	145.00	2297.58	.00	11.53	.00	14.58	380.00
*	480.000	222.00	2298.22	.64	11.85	.00	46.50	380.00
*	480.000	260.00	2298.39	.16	11.87	.00	50.60	380.00
*	480.000	330.00	2298.55	.16	11.81	.00	54.69	380.00
*	570.000	145.00	2310.46	.00	12.88	.00	33.11	480.00
*	570.000	222.00	2310.75	.29	12.53	.00	36.24	480.00
*	570.000	260.00	2310.88	.13	12.49	.00	37.11	480.00
*	570.000	330.00	2311.08	.21	12.54	.00	38.34	480.00
*	670.000	145.00	2328.15	.00	17.69	.00	22.54	530.00
*	670.000	222.00	2328.55	.40	17.80	.00	26.75	530.00
*	670.000	260.00	2328.72	.17	17.84	.00	28.49	530.00
	670.000	330.00	2328.99	.27	17.90	.00	31.32	530.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	780.000	145.00	2349.38	.00	21.23	.00	28.56	580.00
*	780.000	222.00	2349.72	.34	21.17	.00	33.77	580.00
*	780.000	260.00	2349.86	.15	21.15	.00	36.00	580.00
*	780.000	330.00	2350.09	.22	21.10	.00	40.06	580.00
*	880.000	145.00	2364.14	.00	14.77	.00	21.17	530.00
*	880.000	222.00	2364.56	.42	14.84	.00	24.93	530.00
*	880.000	260.00	2364.73	.17	14.87	.00	26.49	530.00
*	880.000	330.00	2365.02	.29	14.93	.00	29.07	530.00
*	990.000	145.00	2384.42	.00	20.28	.00	28.09	580.00
*	990.000	222.00	2384.77	.35	20.21	.00	32.43	580.00
*	990.000	260.00	2384.91	.14	20.18	.00	34.24	580.00
*	990.000	330.00	2385.16	.25	20.14	.00	37.34	580.00
*	1070.000	145.00	2401.25	.00	16.83	.00	53.13	420.00
*	1070.000	222.00	2401.47	.23	16.71	.00	59.26	420.00
*	1070.000	260.00	2401.57	.10	16.66	.00	61.93	420.00
*	1070.000	330.00	2401.74	.17	16.58	.00	66.50	420.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    150.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    230.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    230.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    420.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    420.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    420.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    480.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    670.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    780.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

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CAUTION SECNO=    880.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    880.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    880.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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 ION SECNO=   1070.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     9/27/90    TIME     8:58:20         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

OCT2.MCX
9-18-90

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 9/27/90 8:58:20

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2        100-YR FLOOD FREQUENCY MODEL  (NATURAL CONDITIONS)
T3        OCOTILLO TRIB. 2       (OCT2.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                 2216.29

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT        2       260       260
NC     .048      .048      .042        .1        .3
ET                          4.1    9979.3   10028.8
          ****** STREAM REACH DISTANCES REVISED 9-18-90
          THIS ENCROACHMENT MODEL IS BASED ON A PREVIOUS HEC-2 MODEL OF
          NATURAL CONDITIONS.  REFER TO FILE OCT2.OUT (CH2M HILL, 1990)
          FLOODWAY LIMITS SET TO 100 YEAR FLOOD PLAIN BOUNDARY
X1     1830        15      9980     10020
GR   2240.0      9740    2236.0      9780    2232.0      9820    2228.0      9960    2220.0      9970
GR   2216.0      9980    2215.0      9985    2215.0     10015    2216.0     10020    2220.0     10140
GR   2224.0     10290    2228.0     10310    2229.0     10350    2229.0     10450    2230.0     10470

NC     .05       .05       .04        .1        .3
ET                          4.1    9927.6   10032.5
X1      70        22    9963.7   10000.0       720       760       740
GR   2241.5    9822.3    2249.1    9855.5    2246.3    9865.3    2245.2    9889.8    2237.4    9905.9
GR   2233.4    9932.1    2235.2    9940.5    2235.6    9947.0    2233.9    9963.7    2231.7    9985.2
GR   2234.1    9998.7    2234.3   10000.0    2233.7   10024.7    2235.1   10052.6    2236.7   10088.8
GR   2238.6   10114.5    2237.9   10150.4    2240.9   10180.3    2241.7   10204.1    2242.6   10223.7
GR   2247.0   10261.1    2247.0   10282.2
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NH	4	.05	9852.2	.04	9923.6	.05	9957.8	999	10175.7	
ET			4.1	9855.2	10102.0					
X1	150	14	9852.2	9923.6	400	360	420			
GR	2258.2	9772.3	2257.1	9797.4	2246.4	9829.8	2244.7	9852.2	2241.9	9870.6
GR	2244.0	9889.6	2244.0	9923.6	2244.8	9957.8	2243.9	10000.0	2244.8	10035.6
GR	2243.1	10090.7	2245.8	10117.5	2252.1	10150.0	2253.2	10175.7		
NC	.045	.045	.045							
ET			4.1	9982.5	10008.5					
X1	230	14	9978.9	10014.0	410	440	420			
GR	2270.4	9853.6	2262.2	9915.7	2256.2	9939.3	2257.4	9959.6	2256.6	9978.9
GR	2253.4	9997.9	2253.2	10000.0	2257.8	10014.0	2259.3	10016.5	2265.9	10039.5
GR	2269.0	10058.0	2270.0	10065.4	2273.6	10132.2	2274.1	10138.8		
ET			4.1	9978.1	10012.0					
X1	310	12	9981.0	10008.1	440	450	420			
GR	2281.4	9895.5	2282.4	9927.5	2276.4	9945.4	2270.5	9966.4	2268.9	9981.0
GR	2267.8	9994.6	2266.3	10000.0	2268.4	10008.1	2271.5	10022.8	2276.9	10065.7
GR	2283.8	10101.7	2285.6	10130.5						
ET			4.1	9990.4	10027.6					
X1	420	15	10000.0	10024.2	570	560	580			
GR	2302.0	9907.0	2299.8	9928.2	2292.7	9949.8	2291.3	9958.0	2288.1	9981.0
GR	2284.9	10000.0	2284.5	10009.2	2286.2	10024.2	2286.1	10026.1	2291.1	10044.0
GR	2296.2	10070.0	2299.6	10098.6	2300.5	10128.2	2301.5	10187.1	2301.6	10215.3
NC	.04	.04	.04							
ET			4.1	9989.3	10039.9					
X1	480	11	9997.6	10024.7	380	400	380			
GR	2311.5	9855.4	2309.4	9966.2	2308.2	9973.0	2300.6	9984.0	2294.9	9997.6
GR	2295.1	10000.0	2298.1	10007.0	2297.6	10024.7	2298.0	10031.1	2298.7	10047.0
GR	2312.0	10170.0								
ET			4.1	9987.1	10024.2					
X1	570	23	9987.0	10023.8	470	490	480			
GR	2322.4	9620.1	2321.8	9722.5	2320.0	9742.4	2321.5	9774.2	2321.4	9893.2
GR	2321.1	9921.8	2318.2	9950.5	2314.9	9973.1	2310.9	9987.0	2308.7	9996.8
GR	2309.3	10000.0	2310.0	10018.8	2310.7	10023.8	2315.3	10034.5	2317.5	10055.2
GR	2321.3	10082.6	2322.2	10113.3	2321.1	10156.8	2321.6	10193.4	2321.0	10232.9
GR	2321.6	10262.5	2322.1	10289.0	2323.1	10301.9				
NC	.045	.045	.035							
ET			4.1	9987.5	10016.0					
X1	670	9	9975.7	10027.1	530	530	530			
GR	2338.1	9840.9	2337.9	9907.2	2332.6	9971.8	2331.3	9975.7	2326.0	10000.0
GR	2330.6	10027.1	2334.6	10071.6	2337.7	10115.6	2337.1	10182.2		
ET			4.1	9985.8	10021.8					
X1	780	12	9973.8	10023.2	570	570	580			
GR	2355.5	9805.3	2355.4	9889.3	2355.8	9945.3	2354.6	9968.9	2352.4	9973.8
GR	2347.7	9996.0	2347.8	10000.0	2350.0	10023.2	2351.2	10045.6	2355.2	10068.1
GR	2356.6	10085.1	2357.3	10117.7						

ET			4.1	9989.0	10015.5					
X1	880	10	9971.7	10022.0	510	510	530			
GR	2373.8	9713.0	2373.5	9764.2	2373.1	9864.9	2369.9	9946.7	2367.6	9971.7
GR	2362.9	10000.0	2362.0	10007.2	2366.9	10022.0	2369.7	10051.7	2370.0	10083.0
ET			4.1	9978.9	10013.1					
X1	990	17	9975.0	10009.6	570	590	580			
GR	2395.9	9650.5	2394.9	9703.5	2392.2	9737.9	2390.9	9754.6	2391.3	9776.6
GR	2391.3	9834.2	2390.7	9889.4	2388.5	9941.7	2387.8	9955.7	2385.3	9975.0
GR	2382.8	10000.0	2383.5	10009.6	2386.5	10017.1	2389.6	10049.5	2391.6	10102.5
GR	2390.8	10129.6	2390.9	10132.9						
ET			4.1	9969.1	10031.0					
X1	1070	16	9984.9	10022.8	420	410	420			
GR	2405.1	9803.3	2406.5	9862.9	2404.1	9896.0	2403.1	9946.5	2400.5	9984.9
GR	2400.6	9987.0	2400.4	10000.0	2400.3	10010.0	2400.9	10022.8	2402.8	10046.0
GR	2402.8	10059.3	2402.8	10074.5	2404.1	10135.6	2404.3	10176.5	2405.7	10225.8
GR	2407.9	10261.8								

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T1        FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2        100-YR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3        OCOTILLO TRIB. 2       (OCT2.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                                                                  2217.29

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15                  -1
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THIS RUN EXECUTED 9/27/90 8:58:35

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
	1830.000	260.00	5.54	1.29	2215.00	.00	2216.29	18.31	49.43	9979.28	9980.00	10020.00	10028.70
	1830.000	260.00	2.82	2.29	2215.00	.00	2217.29	54.43	49.50	9979.30	9980.00	10020.00	10028.80
	70.000	260.00	5.66	2.39	2231.70	740.00	2234.09	19.73	68.60	9927.56	9963.70	10000.00	10032.52
*	70.000	260.00	5.61	2.40	2231.70	740.00	2234.10	19.99	69.09	9927.60	9963.70	10000.00	10032.50
*	150.000	260.00	5.09	2.34	2241.90	420.00	2244.24	15.51	156.55	9855.21	9852.20	9923.60	10102.03
*	150.000	260.00	4.83	2.38	2241.90	420.00	2244.28	16.93	162.89	9855.20	9852.20	9923.60	10102.00
*	230.000	260.00	6.90	2.80	2253.20	420.00	2256.00	15.63	26.05	9982.47	9978.90	10014.00	10008.52
*	230.000	260.00	6.95	2.79	2253.20	420.00	2255.99	15.50	25.97	9982.52	9978.90	10014.00	10008.49
*	310.000	260.00	6.61	2.91	2266.30	420.00	2269.21	16.21	33.82	9978.14	9981.00	10008.10	10011.96
*	310.000	260.00	6.56	2.92	2266.30	420.00	2269.22	16.42	33.90	9978.10	9981.00	10008.10	10012.00
*	420.000	260.00	6.54	2.01	2284.50	580.00	2286.51	16.47	37.15	9990.42	10000.00	10024.20	10027.58
*	420.000	260.00	6.44	2.03	2284.50	580.00	2286.53	16.84	37.20	9990.40	10000.00	10024.20	10027.60
*	480.000	260.00	5.00	3.49	2294.90	380.00	2298.39	20.39	50.58	9989.28	9997.60	10024.70	10039.86
*	480.000	260.00	4.99	3.49	2294.90	380.00	2298.39	20.46	50.60	9989.30	9997.60	10024.70	10039.90
*	570.000	260.00	6.15	2.18	2308.70	480.00	2310.88	17.13	37.11	9987.10	9987.00	10023.80	10024.21
*	570.000	260.00	6.19	2.17	2308.70	480.00	2310.87	16.96	37.06	9987.14	9987.00	10023.80	10024.19
*	670.000	260.00	6.71	2.72	2326.00	530.00	2328.72	19.95	28.49	9987.53	9975.70	10027.10	10016.02
*	670.000	260.00	6.74	2.71	2326.00	530.00	2328.71	19.84	28.43	9987.55	9975.70	10027.10	10015.99
*	780.000	260.00	6.19	2.16	2347.70	580.00	2349.86	19.65	36.00	9985.77	9973.80	10023.20	10021.77
	780.000	260.00	6.22	2.16	2347.70	580.00	2349.86	19.50	35.90	9985.81	9973.80	10023.20	10021.70
*	880.000	260.00	6.87	2.73	2362.00	530.00	2364.73	20.04	26.49	9988.96	9971.70	10022.00	10015.46
*	880.000	260.00	6.90	2.73	2362.00	530.00	2364.73	19.94	26.44	9989.00	9971.70	10022.00	10015.44

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	990.000	260.00	6.43	2.11	2382.80	580.00	2384.91	20.15	34.24	9978.89	9975.00	10009.60	10013.13
*	990.000	260.00	6.44	2.11	2382.80	580.00	2384.91	20.10	34.19	9978.91	9975.00	10009.60	10013.10
*	1070.000	260.00	5.67	1.27	2400.30	420.00	2401.57	20.43	61.93	9969.07	9984.90	10022.80	10031.00
*	1070.000	260.00	5.53	1.29	2400.30	420.00	2401.59	21.24	61.90	9969.10	9984.90	10022.80	10031.00

OCOTILLO TRIB. 2

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	1830.000	260.00	2216.29	.00	.00	.00	9980.00	10020.00	.00	201.59	2216.76	.00
	1830.000	260.00	2217.29	1.00	.00	9979.30	9980.00	10020.00	10028.80	22.82	2217.41	.64
*	70.000	260.00	2234.09	.00	17.80	.00	9963.70	10000.00	.00	173.59	2234.57	.00
*	70.000	260.00	2234.10	.01	16.81	9927.60	9963.70	10000.00	10032.50	169.14	2234.57	.00
*	150.000	260.00	2244.24	.00	10.15	.00	9852.20	9923.60	.00	281.12	2244.64	.00
*	150.000	260.00	2244.28	.04	10.18	9855.20	9852.20	9923.60	10102.00	235.90	2244.64	-.00
*	230.000	260.00	2256.00	.00	11.76	.00	9978.90	10014.00	.00	276.80	2256.74	.00
*	230.000	260.00	2255.99	-.01	11.71	9982.50	9978.90	10014.00	10008.50	281.38	2256.74	.00
*	310.000	260.00	2269.21	.00	13.21	.00	9981.00	10008.10	.00	257.38	2269.88	.00
*	310.000	260.00	2269.22	.01	13.23	9978.10	9981.00	10008.10	10012.00	250.83	2269.88	.00
*	420.000	260.00	2286.51	.00	17.30	.00	10000.00	10024.20	.00	249.24	2287.12	.00
*	420.000	260.00	2286.53	.02	17.31	9990.40	10000.00	10024.20	10027.60	238.34	2287.12	.00
	480.000	260.00	2298.39	.00	11.87	.00	9997.60	10024.70	.00	162.64	2298.86	.00
*	480.000	260.00	2298.39	.00	11.86	9989.30	9997.60	10024.70	10039.90	161.43	2298.86	.00
*	570.000	260.00	2310.88	.00	12.49	.00	9987.00	10023.80	.00	230.43	2311.46	.00
*	570.000	260.00	2310.87	-.01	12.48	9987.10	9987.00	10023.80	10024.20	234.94	2311.46	.00
*	670.000	260.00	2328.72	.00	17.84	.00	9975.70	10027.10	.00	169.87	2329.42	.00
*	670.000	260.00	2328.71	-.01	17.84	9987.50	9975.70	10027.10	10016.00	171.69	2329.42	.00
*	780.000	260.00	2349.86	.00	21.15	.00	9973.80	10023.20	.00	175.11	2350.46	.00
*	780.000	260.00	2349.86	-.01	21.14	9985.80	9973.80	10023.20	10021.80	177.78	2350.46	.00
*	880.000	260.00	2364.73	.00	14.87	.00	9971.70	10022.00	.00	168.25	2365.47	.00
*	880.000	260.00	2364.73	-.01	14.87	9989.00	9971.70	10022.00	10015.50	169.94	2365.47	.00
*	990.000	260.00	2384.91	.00	20.18	.00	9975.00	10009.60	.00	166.57	2385.54	.00
*	990.000	260.00	2384.91	-.00	20.18	9978.90	9975.00	10009.60	10013.10	167.36	2385.54	.00
*	1070.000	260.00	2401.57	.00	16.66	.00	9984.90	10022.80	.00	162.03	2402.03	.00
*	1070.000	260.00	2401.59	.02	16.69	9969.10	9984.90	10022.80	10031.00	149.82	2402.03	-.00

SUMMARY OF ERRORS AND SPECIAL NOTES

```
CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    150.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    150.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    150.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    230.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    230.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    230.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    310.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    310.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    310.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    420.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    420.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    420.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    480.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    480.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    480.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    480.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    670.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    670.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    670.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    670.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    780.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    780.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    780.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    880.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    880.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    880.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    990.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    990.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    990.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1070.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1070.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, OCOTILLO TRIB. 2
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
1830.000	49.	97.	2.7	2217.3	2216.3	1.0
70.000	105.	52.	5.0	2234.1	2234.1	.0
150.000	247.	91.	2.9	2244.3	2244.2	.1
230.000	26.	37.	6.9	2256.0	2256.0	.0
310.000	34.	41.	6.4	2269.2	2269.2	.0
420.000	37.	43.	6.0	2286.5	2286.5	.0
480.000	51.	50.	5.2	2298.4	2298.4	.0
570.000	37.	42.	6.2	2310.9	2310.9	.0
670.000	28.	39.	6.7	2328.7	2328.7	.0
780.000	36.	42.	6.2	2349.9	2349.9	.0
880.000	26.	38.	6.9	2364.7	2364.7	.0
990.000	34.	42.	6.2	2384.9	2384.9	.0
1070.000	62.	53.	4.9	2401.6	2401.6	.0

```
*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     9/24/90    TIME    16:46:58         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
****************************************
```

OUTPUT
1-21

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 9/24/90 16:46:58

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2      10-YR FLOOD FREQUENCY MODEL
T3      OCOTILLO WASH, TRIB.3    (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              2                         .030                                2163.08

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     1                -1


    VARIABLE CODES FOR SUMMARY PRINTOUT

    38        1        43        8        55        26        56        13        14        15
     4        5        51
   150

QT       4       164       252       296       375
NC    .055      .055      .055        .1        .3

        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
X1    1360        24    9950.0   10020.0
GR  2184.0    9870.0    2180.0    9885.0    2172.0    9900.0    2168.0    9905.0    2164.0    9910.0
GR  2163.0    9915.0    2164.0    9925.0    2164.0    9950.0    2163.0    9960.0    2163.0   10015.0
GR  2164.0   10020.0    2164.0   10180.0    2162.0   10200.0    2162.0   10220.0    2164.0   10260.0
GR  2168.0   10370.0    2176.0   10400.0    2177.0   10430.0    2176.0   10460.0    2172.0   10490.0
GR  2172.0   10510.0    2176.0   10520.0    2180.0   10560.0    2182.0   10580.0
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X1      70        15      9945.2   10024.4       380       360       370
GR  2190.0    9853.7    2191.2    9869.5    2184.4    9897.0    2175.4    9927.6    2172.5    9945.2
GR  2173.0    9969.9    2173.0    9974.0    2173.4    9990.3    2173.1   10000.0    2173.5   10024.4
GR  2175.6   10035.2    2184.3   10077.2    2187.7   10102.7    2189.0   10133.0    2188.6   10133.5

X1     160        16      9974.1   10014.9       490       470       480
GR  2197.2    9837.7    2193.7    9865.3    2192.5    9901.1    2185.8    9915.8    2184.8    9930.7
GR  2182.4    9974.1    2180.2    9996.3    2181.0   10000.0    2184.2   10014.9    2185.1   10022.0
GR  2185.8   10043.9    2188.4   10070.6    2195.1   10108.7    2199.7   10145.7    2201.2   10184.1
GR  2200.6   10200.0

NC    .055      .055      .055       .3        .5
X1     240        15     10000.0   10039.5       285       285       285                 -4.5
GR  2213.0    9864.9    2209.8    9881.7    2199.7    9916.1    2196.4    9938.2    2194.6    9969.9
GR  2192.3   10000.0    2191.9   10039.5    2195.5   10047.4    2202.9   10057.5    2206.5   10077.0
GR  2207.4   10101.8    2208.7   10118.0    2209.5   10131.7    2200.6   10161.3    2194.7   10180.8

        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
X1     260        14     10021.3   10024.3       100       100       100
GR  2212.8    9790.9    2213.2    9818.9    2210.4    9853.6    2203.2    9885.5    2200.4    9913.0
GR  2196.1    9964.0    2193.9   10021.3    2193.9   10024.3    2195.6   10025.0    2204.1   10050.4
GR  2208.4   10076.4    2209.7   10101.5    2208.0   10115.1    2199.8   10138.0

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
X1     280                                     80        80        80                  2.6
X5       4   2208.64   2209.10   2209.23   2209.44

X1     290        14      9966.1   10000.0        70        70        70
GR  2219.1    9894.6    2217.7    9920.1    2211.9    9935.2    2203.6    9947.8    2199.6    9966.1
GR  2200.2    9987.3    2199.8   10000.0    2201.4   10019.1    2203.8   10053.2    2210.2   10069.4
GR  2212.5   10095.0    2217.2   10123.4    2219.9   10167.0    2221.0   10185.3

X1     410        14     10000.0   10033.2       620       620       620
GR  2232.7    9884.4    2233.5    9929.3    2232.7    9946.4    2229.7    9963.2    2224.8    9973.8
GR  2213.3    9987.5    2213.2   10000.0    2211.5   10018.6    2214.2   10033.2    2214.8   10057.1
GR  2216.3   10083.8    2215.8   10084.6    2224.3   10107.4    2231.7   10119.6

        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
X1     450        15      9986.7   10000.0       220       220       220
GR  2235.5    9834.9    2234.8    9850.8    2228.2    9880.2    2221.0    9912.7    2219.5    9940.9
GR  2220.2    9969.1    2220.2    9986.7    2220.2   10000.0    2220.6   10015.5    2220.4   10031.4
GR  2229.2   10049.2    2229.3   10085.3    2232.7   10099.5    2238.0   10125.2    2239.9   10149.1

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
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      CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
X1     460                                   50        50        50
X5       4   2225.76   2226.48   2226.67   2226.93

X1     480        13   10000.0   10027.5       130       130       130
GR  2241.7    9891.3    2241.1    9907.7    2235.1    9928.1    2226.9    9954.7    2224.7    9973.0
GR  2222.5   10000.0    2223.5   10018.1    2222.2   10027.5    2227.1   10043.7    2230.5   10072.9
GR  2234.6   10098.1    2240.5   10116.7    2242.1   10135.7

NC    .055      .055      .055        .1        .3
X1     570        10   10000.0   10018.4       480       480       480
GR  2252.4    9911.8    2244.9    9937.5    2236.5    9961.0    2233.9    9988.0    2232.5   10000.0
GR  2231.5   10005.8    2233.3   10018.4    2234.4   10019.0    2245.8   10042.8    2250.6   10067.0

X1     650        11   10000.0   10027.7       420       420       420
GR  2263.4    9867.7    2263.2    9918.9    2261.0    9932.6    2250.1    9964.7    2247.6    9983.8
GR  2247.1   10000.0    2244.8   10012.2    2246.5   10027.7    2260.2   10053.8    2264.0   10101.9
GR  2263.6   10108.9

NC    .055      .055      .045
X1     750        16    9975.6    10007.4       530       530       530
GR  2278.3    9840.0    2276.4    9926.4    2273.8    9948.9    2264.4    9973.5    2264.2    9975.6
GR  2261.3    9998.6    2260.7   10000.0    2260.7   10007.4    2263.3   10015.3    2267.2   10026.9
GR  2269.5   10035.0    2273.2   10053.7    2274.4   10067.5    2273.7   10089.4    2275.1   10093.9
GR  2275.4   10126.6

     860        10   10000.0   10011.1       560       590       580
GR  2291.1    9848.0    2290.9    9908.6    2286.3    9960.4    2283.7    9984.0    2281.8   10000.0
GR  2281.2   10011.1    2282.3   10025.0    2286.2   10068.6    2289.6   10131.7    2289.4   10139.0

X1     960        16    9981.4    10000.0       540       550       530
GR  2303.1    9846.2    2304.9    9900.1    2304.4    9916.7    2301.6    9952.0    2300.4    9960.4
GR  2299.1    9981.4    2294.1    9992.3    2297.9   10000.0    2299.2   10017.0    2299.1   10026.2
GR  2304.5   10054.2    2306.1   10061.6    2306.4   10095.5    2304.9   10110.8    2308.8   10129.6
GR  2308.4   10191.0

X1    1070        12    9974.8    10031.0       600       560       580
GR  2321.3    9827.9    2320.0    9883.3    2316.8    9909.4    2314.8    9944.2    2314.5    9972.5
GR  2314.6    9974.8    2311.3   10000.0    2310.8   10009.9    2316.1   10031.0    2318.8   10042.2
GR  2319.4   10090.0    2319.2   10132.0

X1    1120        20    9996.5    10037.5       250       260       260
GR  2329.7    9736.7    2330.0    9807.0    2328.7    9848.4    2327.5    9868.6    2328.2    9879.1
GR  2328.5    9916.7    2325.9    9945.3    2326.0    9953.8    2325.4    9970.6    2323.0    9988.2
GR  2318.8    9996.5    2320.7   10000.0    2321.1   10015.9    2321.1   10028.5    2320.3   10037.5
GR  2322.5   10060.5    2327.0   10069.6    2327.2   10125.0    2329.5   10186.9    2332.4   10305.1

X1    1190        11    9992.6    10027.6       430       430       430
GR  2338.0    9926.6    2338.3    9960.7    2335.4    9964.1    2336.5    9966.2    2335.9    9992.6
GR  2333.5    9998.0    2333.5   10000.0    2336.8   10027.6    2337.7   10039.6    2339.0   10077.8
GR  2340.5   10131.9
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X1	1300	9	10000.0	10027.0	560	540	580			
GR	2356.8	9863.0	2353.8	9973.0	2352.5	10000.0	2350.4	10024.7	2351.0	10027.0
GR	2353.3	10058.3	2354.8	10078.8	2355.4	10106.1	2356.1	10145.0		
X1	1430	17	9984.9	10020.2	670	660	680			
GR	2380.4	9740.9	2379.9	9814.9	2378.1	9835.3	2378.9	9871.0	2378.0	9896.4
GR	2379.5	9929.2	2379.0	9948.8	2374.7	9956.1	2376.1	9958.4	2375.8	9984.9
GR	2371.0	9997.0	2372.0	10000.0	2374.5	10020.2	2377.4	10044.2	2377.6	10055.9
GR	2378.2	10090.5	2378.3	10128.4						
X1	1510	8	10000.0	10052.7	440	450	460			
GR	2393.7	9897.9	2393.7	9923.8	2392.8	9957.5	2391.0	9981.9	2384.9	10000.0
GR	2386.2	10018.4	2388.5	10052.7	2389.8	10106.2				
X1	1610	14	10000.0	10017.7	520	540	530			
GR	2405.2	9785.0	2406.7	9814.6	2404.0	9842.8	2404.5	9885.6	2406.0	9947.2
GR	2404.8	9973.4	2401.5	10000.0	2402.0	10005.4	2402.0	10017.7	2406.5	10035.8
GR	2407.3	10059.9	2407.7	10101.7	2408.8	10152.2	2409.3	10153.7		
X1	1700	13	10000.0	10029.4	490	470	480			
GR	2422.1	9818.6	2422.3	9860.5	2421.2	9903.1	2421.0	9957.2	2420.3	9980.4
GR	2417.2	10000.0	2418.2	10029.4	2418.7	10031.4	2420.9	10064.1	2419.9	10110.6
GR	2419.5	10127.6	2420.5	10154.8	2420.4	10182.7				
	1750	9	10000.0	10024.5	260	280	260			
	2429.8	9827.0	2429.1	9909.0	2430.3	9967.3	2429.5	9979.3	2428.1	9987.6
GR	2426.6	10000.0	2426.9	10024.5	2430.4	10065.3	2433.0	10142.2		

```
 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.08  2163.08  2163.08  2163.08  2163.33      .25      .00      .00  2164.00
    164.       0.       4.     160.       0.       5.      39.       0.       0.  2164.00
     .00      .05      .88     4.07     .055     .055     .055     .000  2162.00  9914.58
 .029427       0.       0.       0        0        4        0      .00   109.98 10241.66


*SECNO 70.000
   70.000     1.18  2173.68      .00      .00  2173.84      .16    10.50      .01  2172.50
    164.      13.     151.       0.       4.      47.       0.       0.       1.  2173.50
     .03     3.16     3.20      .05     .055     .055     .055     .000  2172.50  9938.03
  .028034     380.     370.     360.        5        0        0      .00    87.30 10025.33


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

  160.000     2.45  2182.65      .00      .00  2182.87      .21     9.01      .02  2182.40
    164.       0.     164.       0.       1.      44.       0.       1.       2.  2184.20
     .07      .79     3.72      .00     .055     .055     .000     .000  2180.20  9969.53
  .013419     490.     480.     470.        7        0        0      .00    38.17 10007.70


CCHV=     .300 CEHV=     .500
*SECNO 240.000
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .62

  240.000     1.05  2188.45      .00      .00  2188.76      .31     5.85      .05  2187.80
     164.       7.     154.       4.       3.      34.       1.       1.       2.   2187.40
      .09     2.40     4.56     3.10     .055     .055     .055     .000  2187.40  9991.46
  .035214     285.     285.     285.        4        0        0      .00    50.35 10041.81


*SECNO 260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
  260.000     1.51  2195.41  2195.41      .00  2195.80      .40     3.73      .04  2193.90
     164.     131.      32.       1.      30.       5.       0.       1.       2.   2193.90
      .09     4.44     7.05     2.33     .055     .055     .055     .000  2193.90  9982.10
  .039504     100.     100.     100.        3       11        0      .00    42.82 10024.92


*SECNO 280.000
 WATER EL=X5 CARD=   2208.640

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.24 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  280.000    12.14  2208.64      .00      .00  2208.64      .00      .00      .12  2196.50
     164.     141.       5.      18.    1164.      36.     231.       3.       2.   2196.50
      .28      .12      .15      .08     .055     .055     .055     .000  2196.50  9872.92
  .000001      80.      80.      80.        0        0        0      .00   206.64 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .53
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 290.000     9.04  2208.64      .00      .00  2208.64      .00      .00      .00  2199.60
    164.      26.      66.      71.     148.     295.     389.       4.       2.   2199.80
     .38      .18      .22      .18     .055     .055     .055     .000  2199.60  9940.15
 .000004      70.      70.      70.        2        0        0      .00   125.30 10065.45


*SECNO 410.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 410.000     1.93  2213.43  2213.43      .00  2213.86      .43      .01      .21  2213.20
    164.       4.     160.       0.       2.      30.       0.      11.       4.   2214.20
     .41     1.66      5.30      .00     .055     .055     .000     .000  2211.50  9987.34
 .036909     620.     620.     620.       20       21        0      .00    41.71 10029.05


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
 450.000     1.13  2220.63      .00      .00  2220.79      .16     6.85      .08  2220.20
    164.     140.      15.       9.      42.       6.       6.      11.       4.   2220.20
     .43     3.33      2.55     1.49     .055     .055     .055     .000  2219.50  9919.49
 .026606     220.     220.     220.        5        0        0      .00   112.40 10031.88


*SECNO 460.000
 WATER EL=X5 CARD=   2225.760

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 59.59

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 460.000     6.26  2225.76      .00      .00  2225.76      .00      .00      .05  2220.20
    164.     105.      17.      41.     471.      74.     196.      11.       4.   2220.20
     .49      .22      .23      .21     .055     .055     .055     .000  2219.50  9891.21
 .000007      50.      50.      50.        0        0        0      .00   151.03 10042.24


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .13

 480.000     3.56  2225.76      .00      .00  2225.77      .02      .00      .01  2222.50
    164.      58.      89.      17.      63.      77.      21.      13.       4.   2222.20
     .53      .92     1.15      .83     .055     .055     .055     .000  2222.20  9964.20
 .000459     130.     130.     130.        2        0        0      .00    75.06 10039.26
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.07  2233.57  2233.57      .00  2234.12      .55      .72      .16  2232.50
     164.      17.     147.      0.       5.      24.       0.      14.       5.   2233.30
      .55     3.44     6.19      .05     .055     .055     .055     .000  2231.50  9990.85
  .037762     480.     480.     480.       20       14        0      .00    27.70 10018.55


*SECNO 650.000
  650.000     2.17  2246.97      .00      .00  2247.35      .39    13.22      .02  2247.10
     164.       0.     164.       0.       0.      33.       0.      14.       5.   2246.50
      .57      .00     4.99     1.54     .000     .055     .055     .000  2244.80 10000.71
  .026624     420.     420.     420.        5        0        0      .00    27.87 10028.59


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     1.87  2262.57  2262.57      .00  2263.14      .57    14.86      .06  2264.20
     164.       0.     141.      23.       0.      22.       5.      14.       6.   2260.70
      .60      .00     6.32     4.29     .000     .045     .055     .000  2260.70  9988.56
  .029570     530.     530.     530.        4       15        0      .00    24.51 10013.07


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.56  2282.76  2282.76      .00  2283.22      .45    16.42      .01  2281.80
     164.      11.      89.      65.       4.      14.      15.      15.       6.   2281.20
      .63     2.71     6.33     4.24     .055     .045     .055     .000  2281.20  9991.90
  .026943     560.     580.     590.        4       15        0      .00    38.27 10030.17


*SECNO 960.000
  960.000     3.28  2297.38  2297.37      .00  2298.20      .82    14.87      .11  2299.10
     164.       0.     164.       0.       0.      23.       0.      15.       6.   2297.90
      .65      .00     7.27      .00     .000     .045     .000     .000  2294.10  9985.16
  .028764     540.     530.     550.        5       17        0      .00    13.78  9998.94
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1070.000
 1070.000     1.90  2312.70       .00       .00  2313.13       .44     14.90       .04  2314.60
     164.       0.     164.        0.        0.      31.        0.       15.        7.  2316.10
      .68      .00      5.30       .00      .000     .045      .000      .000   2310.80  9989.33
  .023083     600.     580.      560.         5        0         0       .00     28.12 10017.45


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     2.61  2321.41  2321.41       .00  2321.73       .32      7.22       .01  2318.80
     164.      37.     105.      22.        7.      24.        6.       16.        7.  2320.30
      .70     5.55      4.29     3.38      .055     .045      .055      .000   2318.80  9991.33
  .034389     250.     260.      260.        16       12         0       .00     57.81 10049.14


*SECNO 1190.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     2.07  2335.57  2335.57       .00  2336.15       .58     13.89       .08  2335.90
     164.       0.     164.        0.        0.      27.        0.       16.        7.  2336.80
      .72      .05      6.12       .00      .055     .045      .000      .000   2333.50  9963.90
  .030411     430.     430.      430.         4       15         0       .00     24.46 10017.29


*SECNO 1300.000
 1300.000     1.87  2352.27       .00       .00  2352.66       .39     16.49       .02  2352.50
     164.       0.     129.       35.        0.      24.       11.       16.        8.  2351.00
      .75      .00      5.37     3.26      .000     .045      .055      .000   2350.40 10002.81
  .027020     560.     580.      540.         5        0         0       .00     41.35 10044.16


*SECNO 1430.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     2.66  2373.66  2373.66       .00  2374.25       .60     19.50       .06  2375.80
     164.       0.     164.        0.        0.      26.        0.       17.        8.  2374.50
      .78      .00      6.20       .00      .000     .045      .000      .000   2371.00  9990.30
  .030699     670.     680.      660.        20       14         0       .00     23.08 10013.39
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1510.000
 1510.000     1.95  2386.85       .00       .00  2387.25       .40     12.98       .02  2384.90
     164.      23.      141.        0.        6.      27.        0.       17.        9.   2388.50
      .80     4.14      5.20       .00      .055     .045      .000      .000   2384.90  9994.22
  .026166     440.      460.      450.         4        0         0       .00     33.86 10028.08


*SECNO 1610.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     1.53  2403.03  2403.03       .00  2403.52       .49     14.85       .03  2401.50
     164.      37.      121.        6.        9.      20.        2.       18.        9.   2402.00
      .83     3.91      6.15      2.96      .055     .045      .055      .000   2401.50  9987.65
  .030255     520.      530.      540.         9       15         0       .00     34.20 10021.85


*SECNO 1700.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
     .000     1.37  2418.57  2418.57       .00  2419.01       .43     15.20       .01  2417.20
     164.      23.      141.        0.        6.      26.        0.       18.        9.   2418.20
      .86     3.79      5.48      1.57      .055     .045      .055      .000   2417.20  9991.31
  .032939     490.      480.      470.        20       15         0       .00     39.59 10030.90


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.15  2427.75  2427.75       .00  2428.17       .42      7.88       .00  2426.60
     164.      17.      136.       11.        6.      25.        4.       18.       10.   2426.90
      .87     3.11      5.52      2.55      .055     .045      .055      .000   2426.60  9990.45
  .027804     260.      260.      280.         4       15         0       .00     44.01 10034.47
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   50-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                         .030                                2163.28

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    2                  -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

3720 CRITICAL DEPTH ASSUMED
        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.28  2163.28  2163.28  2163.28  2163.55      .27      .00      .00  2164.00
    252.       1.      30.     221.       1.      16.      50.       0.       0.   2164.00
     .00     1.22     1.90     4.41     .055     .055     .055     .000  2162.00  9913.61
  .028661       0.       0.       0.        0        5        0      .00   121.73 10245.58


*SECNO 70.000
   70.000     1.35  2173.85      .00      .00  2174.08      .23    10.52      .00  2172.50
    252.      19.     232.       0.       6.      61.       0.       1.       1.   2173.50
     .03     3.50     3.84     1.42     .055     .055     .055     .000  2172.50  9937.00
  .028843     380.     370.     360.        4        0        0      .00    89.20 10026.20


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.45

  160.000     2.84  2183.04      .00      .00  2183.32      .28     9.23      .02  2182.40
    252.       5.     247.       0.       4.      57.       0.       1.       2.   2184.20
     .06     1.47     4.32      .00     .055     .055     .000     .000  2180.20  9962.64
  .013695     490.     480.     470.        5        0        0      .00    46.83 10009.47


CCHV=     .300 CEHV=     .500
*SECNO 240.000
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65

  240.000     1.31  2188.71      .00      .00  2189.11      .40     5.73      .06  2187.80
     252.      16.      230.       7.       5.      44.       2.       2.       2.  2187.40
      .07     2.88     5.22     3.45     .055     .055     .055     .000  2187.40  9988.05
  .032400     285.     285.     285.        4        0        0      .00    54.33 10042.38


*SECNO 260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
  260.000     1.80  2195.70  2195.70      .00  2196.17      .47     3.53      .04  2193.90
     252.     208.       42.       2.      42.       5.       1.       2.       2.  2193.90
      .08     4.94     7.84     2.63     .055     .055     .055     .000  2193.90  9974.47
  .038538     100.     100.     100.        4       11        0      .00    50.82 10025.29


*SECNO 280.000
 WATER EL=X5 CARD=   2209.100

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.70 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  280.000    12.60  2209.10      .00      .00  2209.10      .00      .00      .14  2196.50
     252.     215.       8.      29.    1233.      38.     257.       3.       2.  2196.50
      .21      .17      .21      .11     .055     .055     .055     .000  2196.50  9870.88
  .000002      80.      80.      80.        0        0        0      .00   212.74 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
290.000	9.50	2209.10	.00	.00	2209.10	.00	.00	.00	2199.60
252.	41.	100.	111.	160.	311.	420.	5.	3.	2199.80
.28	.26	.32	.26	.055	.055	.055	.000	2199.60	9939.45
.000007	70.	70.	70.	2	0	0	.00	127.17	10066.62

*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

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

410.000	2.25	2213.75	2213.75	.00	2214.25	.50	.02	.25	2213.20
252.	20.	232.	0.	6.	40.	0.	12.	4.	2214.20
.31	3.10	5.86	.00	.055	.055	.000	.000	2211.50	9986.97
.033936	620.	620.	620.	20	18	0	.00	43.79	10030.75

*SECNO 450.000
3-36" CULVERTS AT A DRIVEWAY CROSSING. INVERT AND TOP OF ROAD
ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.

450.000	1.30	2220.80	.00	.00	2221.00	.20	6.66	.09	2220.20
252.	202.	25.	25.	53.	8.	11.	12.	4.	2220.20
.33	3.79	3.17	2.22	.055	.055	.055	.000	2219.50	9916.46
.027178	220.	220.	220.	4	0	0	.00	115.75	10032.21

*SECNO 460.000
WATER EL=X5 CARD= 2226.480

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 48.52

WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.

460.000	6.98	2226.48	.00	.00	2226.48	.00	.00	.06	2220.20
252.	162.	26.	64.	541.	84.	227.	13.	4.	2220.20
.37	.30	.31	.28	.055	.055	.055	.000	2219.50	9887.96
.000012	50.	50.	50.	0	0	0	.00	155.73	10043.70

*SECNO 480.000

```
SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .16

  480.000     4.27  2226.47       .00       .00  2226.50       .02       .00       .01  2222.50
     252.      96.     128.       28.       91.      97.       30.       14.        5.   2222.20
      .40     1.06     1.32       .92      .055     .055      .055      .000   2222.20  9958.22
  .000446     130.     130.      130.         2        0         0       .00     83.42 10041.64


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.48  2233.98  2233.98       .00  2234.63       .65       .68       .19  2232.50
     252.      38.     214.       0.        9.      31.        0.       16.        5.   2233.30
      .42     4.04     6.80      1.43      .055     .055      .055      .000   2231.50  9987.15
   31544     480.     480.      480.        20       14         0       .00     31.62 10018.77


*SECNO 650.000
  650.000     2.46  2247.26  2247.15       .00  2247.84       .58     13.20       .01  2247.10
     252.       0.     250.       1.        0.      41.        1.       16.        6.   2246.50
      .44      .86     6.14      2.30      .055     .055      .055      .000   2244.80  9995.02
  .031335     420.     420.      420.         6       11         0       .00     34.12 10029.14


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     2.29  2262.99  2262.99       .00  2263.67       .68     15.78       .03  2264.20
     252.       0.     214.      38.        0.      31.        8.       17.        6.   2260.70
      .47      .00     6.90      4.81      .000     .045      .055      .000   2260.70  9985.22
  .028335     530.     530.      530.         5       11         0       .00     29.13 10014.35


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.89  2283.09  2283.09       .00  2283.64       .55     15.48       .01  2281.80
     252.      22.     125.     104.        7.      18.       22.       17.        7.   2281.20
      .49     3.17     7.11      4.73      .055     .045      .055      .000   2281.20  9989.14
   25024     560.     580.      590.         4       15         0       .00     44.68 10033.82
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

960.000	3.88	2297.98	2297.98	.00	2298.96	.99	13.98	.13	2299.10
252.	0.	252.	0.	0.	32.	0.	18.	7.	2297.90
.51	.00	7.98	.04	.000	.045	.055	.000	2294.10	9983.85
.027355	540.	530.	550.	3	17	0	.00	17.13	10000.99

*SECNO 1070.000

1070.000	2.27	2313.07	.00	.00	2313.62	.55	14.62	.04	2314.60
252.	0.	252.	0.	0.	42.	0.	18.	7.	2316.10
.54	.00	5.96	.00	.000	.045	.000	.000	2310.80	9986.47
.023287	600.	580.	560.	4	0	0	.00	32.48	10018.95

*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

[illegible]0.000	2.79	2321.59	2321.59	.00	2322.04	.44	7.58	.01	2318.80
252.	47.	171.	34.	8.	32.	9.	18.	8.	2320.30
.55	6.09	5.38	3.92	.055	.045	.055	.000	2318.80	9990.98
.037882	250.	260.	260.	14	11	0	.00	60.05	10051.03

*SECNO 1190.000

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1190.000	2.52	2336.02	2336.02	.00	2336.67	.65	13.48	.06	2335.90
252.	1.	251.	0.	1.	39.	0.	19.	8.	2336.80
.57	1.40	6.48	.00	.055	.045	.000	.000	2333.50	9963.37
.026375	430.	430.	430.	5	11	0	.00	35.60	10021.07

*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1300.000	2.17	2352.57	2352.57	.00	2353.04	.47	15.09	.02	2352.50
252.	0.	190.	62.	0.	32.	17.	19.	9.	2351.00
.60	.04	5.94	3.71	.055	.045	.055	.000	2350.40	9998.56
.026096	560.	580.	540.	12	10	0	.00	49.80	10048.36

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


*SECNO 1430.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.09  2374.09  2374.09      .00  2374.79      .70    18.57      .07  2375.80
    252.       0.     252.       0.       0.      37.       0.      20.       9.   2374.50
     .63      .00     6.72      .00     .000     .045     .000     .000  2371.00  9989.21
  .028835     670.     680.     660.       10       14        0      .00    27.69 10016.90


*SECNO 1510.000
 1510.000     2.26  2387.16      .00      .00  2387.67      .51    12.86      .02  2384.90
    252.      36.     216.       0.       8.      37.       0.      20.      10.   2388.50
     .65     4.68     5.87      .00     .055     .045     .000     .000  2384.90  9993.27
  .027282     440.     460.     450.        4        0        0      .00    39.59 10032.86


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
     CRITICAL DEPTH ASSUMED
     .000     1.88  2403.38  2403.38      .00  2403.99      .61    14.36      .03  2401.50
    252.      60.     179.      13.      14.      26.       4.      21.      10.   2402.00
     .68     4.24     6.96     3.40     .055     .045     .055     .000  2401.50  9984.88
  .027089     520.     530.     540.       20       15        0      .00    38.35 10023.23


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     1.67  2418.87  2418.87      .00  2419.42      .54    13.41      .01  2417.20
    252.      36.     214.       2.       9.      34.       1.      21.      10.   2418.20
     .70     4.02     6.21     2.18     .055     .045     .055     .000  2417.20  9989.43
  .028620     490.     480.     470.        4       15        0      .00    44.54 10033.97


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.45  2428.05  2428.05      .00  2428.56      .51     6.97      .00  2426.60
    252.      30.     199.      23.       9.      32.       8.      22.      11.   2426.90
     .71     3.43     6.23     2.95     .055     .045     .055     .000  2426.60  9987.98
  .024957     260.     260.     280.        4       11        0      .00    49.98 10037.96
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                         .030                                2163.36

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    3                  -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.35  2163.35  2163.35  2163.36  2163.64      .29      .00      .00  2164.00
    296.       1.      44.     250.       1.      20.      54.       0.       0.   2164.00
     .00     1.44     2.23     4.63     .055     .055     .055     .000  2162.00  9913.27
  .029809      0.       0.       0.        0        5        0      .00   125.75 10246.92


*SECNO 70.000
   70.000     1.45  2173.95      .00      .00  2174.20      .25    10.55      .00  2172.50
    296.      22.     273.       1.       6.      67.       0.       1.       1.   2173.50
     .03     3.59     4.05     1.62     .055     .055     .055     .000  2172.50  9936.48
  .027877     380.     370.     360.        4        0        0      .00    90.17 10026.65


*SECNO 160.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.40

  160.000     2.98  2183.18      .00      .00  2183.50      .32     9.28      .02  2182.40
    296.       9.     287.       0.       5.      62.       0.       1.       2.   2184.20
     .06     1.71     4.60      .00     .055     .055     .000     .000  2180.20  9960.00
  .014175     490.     480.     470.        6        0        0      .00    50.14 10010.15


CCHV=     .300 CEHV=     .500
*SECNO 240.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .68
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


 240.000     1.44  2188.84      .00      .00  2189.27      .43     5.72      .06  2187.80
    296.      21.     266.       8.       7.      49.       2.       2.       2.   2187.40
     .07     3.05     5.45     3.56     .055     .055     .055     .000  2187.40  9986.41
 .030561     285.     285.     285.        4        0        0      .00    56.24 10042.66


*SECNO 260.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        1-36" CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
        260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.
 260.000     1.93  2195.82  2195.82      .00  2196.33      .50     3.39      .04  2193.90
    296.     247.      47.       2.      48.       6.       1.       2.       2.   2193.90
     .08     5.12     8.13     2.64     .055     .055     .055     .000  2193.90  9971.17
 .037770     100.     100.     100.        2       11        0      .00    54.51 10025.67


*SECNO 280.000
 R EL=X5 CARD=   2209.230

3265 DIVIDED FLOW

3280 CROSS SECTION    280.00 EXTENDED      6.83 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = *****

        WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
 280.000    12.73  2209.23      .00      .00  2209.23      .00      .00      .15  2196.50
    296.     252.       9.      34.    1253.      38.     265.       3.       2.   2196.50
     .19      .20      .25      .13     .055     .055     .055     .000  2196.50  9870.30
 .000003      80.      80.      80.        0        0        0      .00   214.47 10138.00


*SECNO 290.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

 290.000     9.63  2209.23      .00      .00  2209.23      .00      .00      .00  2199.60
    296.      48.     117.     131.     164.     315.     428.       5.       3.   2199.80
     .25      .30      .37      .31     .055     .055     .055     .000  2199.60  9939.25
 .000010      70.      70.      70.        2        0        0      .00   127.69 10066.94
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 410.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  410.000     2.37  2213.87  2213.87      .00  2214.42      .56      .02      .28  2213.20
     296.      28.     268.       0.       8.      43.       0.      12.       4.   2214.20
      .28     3.59     6.18      .00     .055     .055     .000     .000  2211.50  9986.83
  .034488     620.     620.     620.       20       14        0      .00    44.57 10031.39


*SECNO 450.000
        3-36" CULVERTS AT A DRIVEWAY CROSSING.  INVERT AND TOP OF ROAD
        ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
  450.000     1.38  2220.88      .00      .00  2221.10      .22     6.57      .10  2220.20
     296.     231.      31.      34.      59.       9.      14.      13.       4.   2220.20
      .29     3.92     3.38     2.49     .055     .055     .055     .000  2219.50  9914.94
  .026132     220.     220.     220.        5        0        0      .00   117.43 10032.37


*SECNO 460.000
 WATER EL=X5 CARD=   2226.670

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 42.69

        WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
        CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.
  460.000     7.17  2226.67      .00      .00  2226.67      .00      .00      .06  2220.20
     296.     190.      31.      76.     560.      86.     235.      13.       4.   2220.20
      .34      .34      .36      .32     .055     .055     .055     .000  2219.50  9887.11
  .000014      50.      50.      50.        0        0        0      .00   156.98 10044.08


*SECNO 480.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .17

  480.000     4.46  2226.66      .00      .00  2226.69      .03      .01      .01  2222.50
     296.     115.     148.      33.      99.     102.      33.      15.       5.   2222.20
      .36     1.16     1.45     1.00     .055     .055     .055     .000  2222.20  9956.64
  .000501     130.     130.     130.        2        0        0      .00    85.62 10042.27
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.65  2234.15  2234.15      .00  2234.84      .69      .75      .20  2232.50
     296.      52.     244.       0.      12.      35.       0.      16.       5.   2233.30
      .38     4.40     7.05     1.62     .055     .055     .055     .000  2231.50  9985.36
  .029785     480.     480.     480.       20       11        0      .00    33.50 10018.87


*SECNO 650.000
  650.000     2.57  2247.37  2247.34      .00  2248.05      .68    13.21      .00  2247.10
     296.       2.     293.       2.       1.      44.       1.      17.       6.   2246.50
      .40     1.29     6.66     2.61     .055     .055     .055     .000  2244.80  9991.28
  .033257     420.     420.     420.        7       11        0      .00    38.08 10029.36


*SECNO 750.000
  750.000     2.48  2263.18  2263.17      .00  2263.89      .71    15.83      .01  2264.20
     296.       0.     250.      46.       0.      35.       9.      17.       6.   2260.70
      .42      .00     7.04     4.95     .000     .045     .055     .000  2260.70  9983.68
  .026976     530.     530.     530.        7        8        0      .00    31.26 10014.94


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     2.03  2283.23  2283.23      .00  2283.82      .59    14.98      .01  2281.80
     296.      29.     143.     125.       9.      19.      25.      18.       7.   2281.20
      .45     3.37     7.44     4.92     .055     .045     .055     .000  2281.20  9987.99
  .024600     560.     580.     590.        4       15        0      .00    47.36 10035.35


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  960.000     4.18  2298.28  2298.28      .00  2299.28     1.01    13.06      .12  2299.10
     296.       0.     295.       1.       0.      37.       1.      19.       7.   2297.90
      .47      .00     8.06     1.38     .000     .045     .055     .000  2294.10  9983.20
  .024239     540.     530.     550.        3       17        0      .00    21.73 10004.93
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     BANK ELEV
   Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA     LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1070.000
 1070.000     2.38  2313.18  2313.15      .00  2313.83      .65     14.51      .04  2314.60
    296.       0.     296.       0.       0.      46.       0.       19.       8.   2316.10
     .49      .00     6.46      .00     .000     .045     .000     .000  2310.80  9985.65
  .025844     600.     580.     560.        6       11        0      .00    33.72 10019.37


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1120.000     2.91  2321.71  2321.71      .00  2322.18      .47      7.71      .02  2318.80
    296.      50.     205.      41.       8.      36.      10.       19.       8.   2320.30
     .51     5.98     5.63     3.97     .055     .045     .055     .000  2318.80  9990.75
  .034658     250.     260.     260.       14       11        0      .00    61.46 10052.21


*SECNO 1190.000

3265 DIVIDED FLOW

 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     2.75  2336.25  2336.25      .00  2336.87      .62     11.89      .05  2335.90
    296.       6.     290.       0.       4.      45.       0.       20.       8.   2336.80
     .53     1.49     6.39      .00     .055     .045     .000     .000  2333.50  9963.11
  .022585     430.     430.     430.        5        8        0      .00    48.27 10022.98


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     2.24  2352.64  2352.64      .00  2353.20      .56     14.70      .01  2352.50
    296.       0.     222.      74.       0.      34.      18.       21.       9.   2351.00
     .55      .79     6.54     4.04     .055     .045     .055     .000  2350.40  9997.05
  .029187     560.     580.     540.        5       15        0      .00    52.29 10049.34


*SECNO 1430.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.27  2374.27  2374.27      .00  2375.02      .74     19.40      .06  2375.80
    296.       0.     296.       0.       0.      43.       0.       21.      10.   2374.50
     .58      .00     6.92      .00     .000     .045     .000     .000  2371.00  9988.75
  .028106     670.     680.     660.       20       14        0      .00    29.64 10018.38
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 1510.000
 1510.000     2.40  2387.30       .00       .00  2387.86       .56     12.82       .02  2384.90
    296.       42.     254.        0.        9.      41.        0.       22.       10.   2388.50
     .60     4.91      6.16       .00      .055     .045      .000      .000  2384.90  9992.88
  .027804     440.     460.     450.         5        0         0       .00     41.94 10034.82


*SECNO 1610.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1610.000     2.03  2403.53  2403.53       .00  2404.19       .65     14.08       .03  2401.50
    296.       73.     207.       17.       17.      29.        5.       22.       11.   2402.00
     .62     4.35      7.25     3.55      .055     .045      .055      .000  2401.50  9983.60
  .025582     520.     530.     540.        20       12         0       .00     40.27 10023.87


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     1.81  2419.01  2419.01       .00  2419.60       .59     12.60       .01  2417.20
    296.       43.     249.        4.       10.      39.        2.       23.       11.   2418.20
     .65     4.10      6.47     2.29      .055     .045      .055      .000  2417.20  9988.55
  .026780     490.     480.     470.         4       11         0       .00     47.46 10036.02


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.59  2428.19  2428.19       .00  2428.73       .54      6.54       .00  2426.60
    296.       38.     228.       30.       10.      35.       10.       23.       11.   2426.90
     .66     3.66      6.46     3.08      .055     .045      .055      .000  2426.60  9987.06
  .023493     260.     260.     280.         4       11         0       .00     52.48 10039.54
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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   500-YR FLOOD FREQUENCY MODEL
T3   OCOTILLO WASH, TRIB. 3   (OCT3.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                         .030                                2163.45

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 1360.000

3265 DIVIDED FLOW

        **** STREAM REACH DISTANCES REVISED 9-20-90
        *****REVISED STREAMFLOWS FROM CVCRK43R.OUT********
        COMMON SECTION IS SEC. 1360 FROM OCOTILLO WASH (HTA)
        SEC. 020 = SEC. 1360 OF OCOTILLO WASH (HTA).
        SECTION 020 IS FULLY SUBMERGED BY BACKWATER FROM OCOTILLO.
        QT VALUES ARE FROM SUBWATERSHED "G3" REDUCED BY AN
        AREA FACTOR (0.25) PROPORTIONAL TO CONTRIBUTING AREA.
        SLOPE/AREA METHOD IS USED TO COMPUTE STARTING WSEL.
 1360.000     1.46  2163.46      .00  2163.45  2163.78      .31      .00      .00  2164.00
    375.       3.      73.      299.       2.      27.      61.       0.       0.   2164.00
     .00     1.76     2.70     4.86     .055     .055     .055     .000  2162.00  9912.68
  .029985       0.       0.       0.        0        0        5      .00   132.88 10249.29


*SECNO 70.000
   70.000     1.57  2174.07      .00      .00  2174.37      .30    10.59      .00  2172.50
    375.      28.     345.       2.       7.      78.       1.       1.       1.   2173.50
     .02     3.80     4.45     1.92     .055     .055     .055     .000  2172.50  9935.70
  .027870     380.     370.     360.        4        0        0      .00    91.61 10027.31


*SECNO 160.000
  160.000     3.23  2183.43      .00      .00  2183.80      .37     9.41      .02  2182.40
    375.      20.     355.       0.       9.      71.       0.       2.       2.   2184.20
     .05     2.08     4.98      .00     .055     .055     .000     .000  2180.20  9955.57
  .014500     490.     480.     470.        6        0        0      .00    55.72 10011.29


CCHV=     .300 CEHV=     .500
*SECNO 240.000
  240.000     1.64  2189.04      .00      .00  2189.52      .49     5.67      .06  2187.80
    375.      33.     331.      11.      10.      57.       3.       2.       2.   2187.40
     .07     3.32     5.84     3.77     .055     .055     .055     .000  2187.40  9983.86
  .028925     285.     285.     285.        4        0        0      .00    59.23 10043.08
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 260.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1-36" CULVERT AT SCHOOL HOUSE ROAD. INVERT AND TOP OF ROAD
ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.
260 IS DUPLICATED UPSTREAM AND DOWNSTREAM OF CULVERTS.

260.000	2.13	2196.03	2196.03	.00	2196.57	.55	3.25	.03	2193.90
375.	317.	55.	3.	59.	6.	1.	2.	2.	2193.90
.07	5.39	8.56	2.87	.055	.055	.055	.000	2193.90	9965.93
.036688	100.	100.	100.	20	11	0	.00	60.34	10026.27

*SECNO 280.000
WATER EL=X5 CARD= 2209.440

3265 DIVIDED FLOW

3280 CROSS SECTION 280.00 EXTENDED 7.04 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 94.17

WSEL IS DETERMINED USING HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.

280.000	12.94	2209.44	.00	.00	2209.44	.00	.00	.16	2196.50
375.	319.	12.	44.	1284.	39.	278.	4.	3.	2196.50
.16	.25	.30	.16	.055	.055	.055	.000	2196.50	9869.37
.000004	80.	80.	80.	0	0	0	.00	217.25	10138.00

*SECNO 290.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

290.000	9.84	2209.44	.00	.00	2209.44	.00	.00	.00	2199.60
375.	62.	147.	166.	169.	322.	442.	6.	3.	2199.80
.21	.36	.46	.38	.055	.055	.055	.000	2199.60	9938.94
.000014	70.	70.	70.	2	0	0	.00	128.54	10067.48

*SECNO 410.000

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

3301 HV CHANGED MORE THAN HVINS

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

410.000	2.55	2214.05	2214.05	.00	2214.70	.65	.03	.32	2213.20
375.	45.	330.	0.	10.	49.	0.	13.	4.	2214.20
.24	4.33	6.69	.00	.055	.055	.000	.000	2211.50	9986.60
.035510	620.	620.	620.	20	14	0	.00	45.81	10032.41

*SECNO 450.000

3-36" CULVERTS AT A DRIVEWAY CROSSING. INVERT AND TOP OF ROAD
ELEVATIONS ARE DETERMINED FROM 200 SCALE TOPO AND HAND LEVEL.

450.000	1.52	2221.02	.00	.00	2221.25	.24	6.43	.12	2220.20
375.	283.	40.	52.	69.	11.	18.	13.	4.	2220.20
.25	4.11	3.69	2.88	.055	.055	.055	.000	2219.50	9912.63
.024480	220.	220.	220.	6	0	0	.00	120.01	10032.64

*SECNO 460.000
WATER EL=X5 CARD= 2226.930

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 34.96

WSEL ARE DETERMINED FROM HEC-5 CHARTS 5 & 11 AND WIER FLOWS ARE
CALCULATED BY SUMMING PARTIAL Q VALUES ACROSS WIER FOR EACH WSEL.

460.000	7.43	2226.93	.00	.00	2226.93	.00	.00	.07	2220.20
375.	240.	39.	96.	586.	90.	247.	14.	5.	2220.20
.29	.41	.43	.39	.055	.055	.055	.000	2219.50	9885.93
.000020	50.	50.	50.	0	0	0	.00	158.68	10044.61

*SECNO 480.000

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .18

480.000	4.72	2226.92	.00	.00	2226.96	.03	.01	.02	2222.50
375.	149.	184.	43.	110.	109.	37.	16.	5.	2222.20
.31	1.35	1.68	1.16	.055	.055	.055	.000	2222.20	9954.62
.000617	130.	130.	130.	2	0	0	.00	88.50	10043.12

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


CCHV=     .100 CEHV=     .300
*SECNO 570.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     2.90  2234.40  2234.40      .00  2235.19      .79      .90      .23  2232.50
     375.      77.     297.       1.      16.      39.       0.      17.       6.   2233.30
      .33     4.93     7.61     1.90     .055     .055     .055     .000  2231.50  9982.84
  .029509     480.     480.     480.       20       14        0      .00    36.16 10019.00


*SECNO 650.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  650.000     2.88  2247.68  2247.68      .00  2248.38      .70    12.03      .01  2247.10
     375.      11.     360.       4.       5.      53.       1.      18.       6.   2246.50
      .35     2.13     6.85     2.92     .055     .055     .055     .000  2244.80  9983.21
  27835       420.     420.     420.        4        5        0      .00    46.73 10029.94


*SECNO 750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  750.000     2.77  2263.47  2263.47      .00  2264.24      .77    14.15      .02  2264.20
     375.       0.     312.      63.       0.      43.      12.      19.       7.   2260.70
      .37      .00     7.31     5.39     .000     .045     .055     .000  2260.70  9981.37
  .025640     530.     530.     530.        3        8        0      .00    34.45 10015.81


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     2.25  2283.45  2283.45      .00  2284.10      .65    14.31      .01  2281.80
     375.      42.     172.     161.      12.      22.      31.      19.       7.   2281.20
      .39     3.64     7.92     5.18     .055     .045     .055     .000  2281.20  9986.07
  .023613     560.     580.     590.        5       15        0      .00    51.82 10037.90


*SECNO 960.000
7185 MINIMUM SPECIFIC ENERGY
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   ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED
  960.000     4.64  2298.74  2298.74      .00  2299.76     1.01    11.80      .11  2299.10
     375.       0.     365.      10.       0.      45.       5.      20.       8.   2297.90
      .41      .00     8.18     2.18     .000     .045     .055     .000  2294.10  9982.18
  .020633     540.     530.     550.       11       17        0      .00    28.86 10011.03


*SECNO 1070.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1070.000     2.61  2313.41  2313.41      .00  2314.16      .75    13.53      .03  2314.60
     375.       0.     375.       0.       0.      54.       0.      21.       8.   2316.10
      .44      .00     6.94      .00     .000     .045     .000     .000  2310.80  9983.87
  .026609     600.     580.     560.        8       11        0      .00    36.43 10020.30


*SECNO 1120.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  [illegible]0.000     3.04  2321.84  2321.84      .00  2322.41      .57     7.97      .02  2318.80
     [illegible]375.      57.     264.      53.       9.      42.      12.      21.       8.   2320.30
      .45     6.28     6.30     4.29     .055     .045     .055     .000  2318.80  9990.49
  .035896     250.     260.     260.       11       11        0      .00    63.14 10053.63


*SECNO 1190.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1190.000     3.08  2336.58  2336.58      .00  2337.15      .57    10.72      .00  2335.90
     375.      25.     350.       0.      12.      56.       0.      22.       9.   2336.80
      .47     2.00     6.25      .00     .055     .045     .000     .000  2333.50  9962.71
  .018304     430.     430.     430.        4        5        0      .00    63.07 10025.78


*SECNO 1300.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1300.000     2.46  2352.86  2352.86      .00  2353.47      .61    12.50      .01  2352.50
     375.       2.     275.      98.       1.      40.      24.      23.      10.   2351.00
      .49     1.40     6.91     4.17     .055     .045     .055     .000  2350.40  9992.53
  .026343     560.     580.     540.        3       15        0      .00    59.78 10052.31
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 ECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1430.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1430.000     3.54  2374.54  2374.54      .00  2375.38      .84    18.32      .07  2375.80
    375.       0.     375.       0.       0.      51.       0.      24.      11.   2374.50
     .52      .00     7.34      .05     .000     .045     .055     .000  2371.00  9988.07
  .027776     670.     680.     660.       20       14        0      .00    32.48 10020.55


*SECNO 1510.000
 1510.000     2.62  2387.52  2387.49      .00  2388.15      .63    12.75      .02  2384.90
    375.       53.     322.       0.      10.      49.       0.      24.      11.   2388.50
     .54     5.21     6.53      .00     .055     .045     .000     .000  2384.90  9992.22
  .027823     440.     460.     450.        8       19        0      .00    45.89 10038.11


*SECNO 1610.000
7185 MINIMUM SPECIFIC ENERGY
 CRITICAL DEPTH ASSUMED
 .000     2.28  2403.78  2403.78      .00  2404.51      .73    13.71      .03  2401.50
    375.       96.     255.       24.      21.      33.       6.      25.      11.   2402.00
     .56     4.57     7.76     3.82     .055     .045     .055     .000  2401.50  9981.62
  .024248     520.     530.     540.        9       16        0      .00    43.24 10024.86


*SECNO 1700.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1700.000     2.03  2419.23  2419.23      .00  2419.89      .66    11.80      .01  2417.20
    375.       55.     310.        9.      13.      45.       4.      26.      12.   2418.20
     .58     4.26     6.90     2.51     .055     .045     .055     .000  2417.20  9987.16
  .024746     490.     480.     470.        4       15        0      .00    52.12 10039.29


*SECNO 1750.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1750.000     1.79  2428.39  2428.39      .00  2429.00      .61     6.17      .00  2426.60
    375.       54.     278.       43.      13.      40.      13.      26.      12.   2426.90
     .59     4.09     6.90     3.33     .055     .045     .055     .000  2426.60  9985.86
  .022537     260.     260.     280.        3       11        0      .00    56.04 10041.90
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THIS RUN EXECUTED 9/24/90 16:47:45

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO WASH, TRIB.3

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1360.000	2163.08	164.00	1.08	.05	.88	4.07	.00	4.04	159.95	109.98	294.27	.00
*	1360.000	2163.28	252.00	1.28	1.22	1.90	4.41	.71	30.32	220.97	121.73	286.61	.00
	1360.000	2163.35	296.00	1.35	1.44	2.23	4.63	1.29	44.45	250.26	125.75	298.09	.00
	1360.000	2163.46	375.00	1.46	1.76	2.70	4.86	2.84	73.31	298.84	132.88	299.85	.00
	70.000	2173.68	164.00	1.18	3.16	3.20	.05	13.35	150.64	.00	87.30	280.34	10.60
	70.000	2173.85	252.00	1.35	3.50	3.84	1.42	19.38	232.17	.45	89.20	288.43	10.57
	70.000	2173.95	296.00	1.45	3.59	4.05	1.62	22.47	272.74	.79	90.17	278.77	10.60
	70.000	2174.07	375.00	1.57	3.80	4.45	1.92	28.26	345.16	1.58	91.61	278.70	10.60
*	160.000	2182.65	164.00	2.45	.79	3.72	.00	.45	163.54	.00	38.17	134.19	8.97
*	160.000	2183.04	252.00	2.84	1.47	4.32	.00	5.33	246.67	.00	46.83	136.95	9.18
*	160.000	2183.18	296.00	2.98	1.71	4.60	.00	9.42	286.58	.00	50.14	141.75	9.24
	160.000	2183.43	375.00	3.23	2.08	4.98	.00	19.76	355.23	.00	55.72	145.00	9.36
*	240.000	2188.45	164.00	1.05	2.40	4.56	3.10	6.68	153.54	3.77	50.35	352.14	5.80
*	240.000	2188.71	252.00	1.31	2.88	5.22	3.45	15.71	229.76	6.53	54.33	324.00	5.68
*	240.000	2188.84	296.00	1.44	3.05	5.45	3.56	21.48	266.44	8.08	56.24	305.61	5.66
	240.000	2189.04	375.00	1.64	3.32	5.84	3.77	33.09	330.86	11.04	59.23	289.25	5.61
*	260.000	2195.41	164.00	1.51	4.44	7.05	2.33	131.05	31.86	1.09	42.82	395.04	6.95
*	260.000	2195.70	252.00	1.80	4.94	7.84	2.63	207.90	42.31	1.79	50.82	385.38	6.98
*	260.000	2195.82	296.00	1.93	5.12	8.13	2.64	246.89	46.93	2.18	54.51	377.70	6.98
*	260.000	2196.03	375.00	2.13	5.39	8.56	2.87	317.08	54.57	3.34	60.34	366.88	6.99
*	280.000	2208.64	164.00	12.14	.12	.15	.08	140.78	5.40	17.82	206.64	.01	13.23
*	280.000	2209.10	252.00	12.60	.17	.21	.11	215.21	8.06	28.73	212.74	.02	13.40
*	280.000	2209.23	296.00	12.73	.20	.25	.13	252.42	9.40	34.19	214.47	.03	13.41
*	280.000	2209.44	375.00	12.94	.25	.30	.16	319.03	11.76	44.21	217.25	.04	13.41
*	290.000	2208.64	164.00	9.04	.18	.22	.18	26.38	66.16	71.46	125.30	.04	.00
*	290.000	2209.10	252.00	9.50	.26	.32	.26	41.00	99.97	111.03	127.17	.07	.00
*	290.000	2209.23	296.00	9.63	.30	.37	.31	48.31	116.89	130.80	127.69	.10	.00
*	290.000	2209.44	375.00	9.84	.36	.46	.38	61.50	147.03	166.47	128.54	.14	.00

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	410.000	2213.43	164.00	1.93	1.66	5.30	.00	3.81	160.19	.00	41.71	369.09	4.79
*	410.000	2213.75	252.00	2.25	3.10	5.86	.00	19.62	232.38	.00	43.79	339.36	4.65
*	410.000	2213.87	296.00	2.37	3.59	6.18	.00	28.27	267.72	.00	44.57	344.88	4.64
*	410.000	2214.05	375.00	2.55	4.33	6.69	.00	44.94	330.05	.00	45.81	355.10	4.61
	450.000	2220.63	164.00	1.13	3.33	2.55	1.49	140.24	14.86	8.89	112.40	266.06	7.20
	450.000	2220.80	252.00	1.30	3.79	3.17	2.22	201.92	25.31	24.77	115.75	271.78	7.05
	450.000	2220.88	296.00	1.38	3.92	3.38	2.49	231.15	30.61	34.24	117.43	261.32	7.01
	450.000	2221.02	375.00	1.52	4.11	3.69	2.88	282.93	39.99	52.08	120.01	244.80	6.96
*	460.000	2225.76	164.00	6.26	.22	.23	.21	105.46	17.17	41.38	151.03	.07	5.13
*	460.000	2226.48	252.00	6.98	.30	.31	.28	161.64	26.10	64.26	155.73	.12	5.68
*	460.000	2226.67	296.00	7.17	.34	.36	.32	189.76	30.57	75.67	156.98	.14	5.79
*	460.000	2226.93	375.00	7.43	.41	.43	.39	240.26	38.58	96.16	158.68	.20	5.91
*	480.000	2225.76	164.00	3.56	.92	1.15	.83	57.94	88.78	17.27	75.06	4.59	-.00
*	480.000	2226.47	252.00	4.27	1.06	1.32	.92	96.31	127.89	27.80	83.42	4.46	-.01
*	480.000	2226.66	296.00	4.46	1.16	1.45	1.00	114.99	147.93	33.08	85.62	5.01	-.01
*	480.000	2226.92	375.00	4.72	1.35	1.68	1.16	148.74	183.61	42.65	88.50	6.17	-.01
*	570.000	2233.57	164.00	2.07	3.44	6.19	.05	16.79	147.21	.00	27.70	377.62	7.81
*	570.000	2233.98	252.00	2.48	4.04	6.80	1.43	38.03	213.79	.18	31.62	315.44	7.51
*	570.000	2234.15	296.00	2.65	4.40	7.05	1.62	51.88	243.80	.32	33.50	297.85	7.49
	570.000	2234.40	375.00	2.90	4.93	7.61	1.90	77.17	297.21	.62	36.16	295.09	7.48
	650.000	2246.97	164.00	2.17	.00	4.99	1.54	.00	163.68	.32	27.87	266.24	13.40
	650.000	2247.26	252.00	2.46	.86	6.14	2.30	.33	250.42	1.25	34.12	313.35	13.28
	650.000	2247.37	296.00	2.57	1.29	6.66	2.61	1.52	292.60	1.88	38.08	332.57	13.22
*	650.000	2247.68	375.00	2.88	2.13	6.85	2.92	11.35	359.79	3.86	46.73	278.35	13.28
*	750.000	2262.57	164.00	1.87	.00	6.32	4.29	.00	141.32	22.68	24.51	295.70	15.60
*	750.000	2262.99	252.00	2.29	.00	6.90	4.81	.00	213.82	38.18	29.13	283.35	15.73
	750.000	2263.18	296.00	2.48	.00	7.04	4.95	.00	249.69	46.31	31.26	269.76	15.81
*	750.000	2263.47	375.00	2.77	.00	7.31	5.39	.00	312.03	62.97	34.45	256.40	15.80
*	860.000	2282.76	164.00	1.56	2.71	6.33	4.24	10.57	88.64	64.79	38.27	269.43	20.20
*	860.000	2283.09	252.00	1.89	3.17	7.11	4.73	22.21	125.35	104.44	44.68	250.24	20.10
*	860.000	2283.23	296.00	2.03	3.37	7.44	4.92	28.81	142.62	124.57	47.36	246.00	20.04
*	860.000	2283.45	375.00	2.25	3.64	7.92	5.18	41.91	171.79	161.29	51.82	236.13	19.98
	960.000	2297.38	164.00	3.28	.00	7.27	.00	.00	164.00	.00	13.78	287.64	14.61
*	960.000	2297.98	252.00	3.88	.00	7.98	.04	.00	252.00	.00	17.13	273.55	14.89
*	960.000	2298.28	296.00	4.18	.00	8.06	1.38	.00	294.72	1.28	21.73	242.39	15.05
*	960.000	2298.74	375.00	4.64	.00	8.18	2.18	.00	364.86	10.14	28.86	206.33	15.29
	1070.000	2312.70	164.00	1.90	.00	5.30	.00	.00	164.00	.00	28.12	230.83	15.32
	1070.000	2313.07	252.00	2.27	.00	5.96	.00	.00	252.00	.00	32.48	232.87	15.10
	1070.000	2313.18	296.00	2.38	.00	6.46	.00	.00	296.00	.00	33.72	258.44	14.91
*	1070.000	2313.41	375.00	2.61	.00	6.94	.00	.00	375.00	.00	36.43	266.09	14.67

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	1120.000	2321.41	164.00	2.61	5.55	4.29	3.38	37.47	104.61	21.92	57.81	343.89	8.72
*	1120.000	2321.59	252.00	2.79	6.09	5.38	3.92	46.98	170.69	34.32	60.05	378.82	8.52
*	1120.000	2321.71	296.00	2.91	5.98	5.63	3.97	49.96	204.98	41.06	61.46	346.58	8.53
*	1120.000	2321.84	375.00	3.04	6.28	6.30	4.29	57.40	264.22	53.38	63.14	358.96	8.43
*	1190.000	2335.57	164.00	2.07	.05	6.12	.00	.00	164.00	.00	24.46	304.11	14.15
*	1190.000	2336.02	252.00	2.52	1.40	6.48	.00	1.26	250.74	.00	35.60	263.75	14.42
*	1190.000	2336.25	296.00	2.75	1.49	6.39	.00	5.61	290.39	.00	48.27	225.85	14.54
*	1190.000	2336.58	375.00	3.08	2.00	6.25	.00	24.51	350.49	.00	63.07	183.04	14.74
	1300.000	2352.27	164.00	1.87	.00	5.37	3.26	.00	128.71	35.28	41.35	270.20	16.70
*	1300.000	2352.57	252.00	2.17	.04	5.94	3.71	.00	189.89	62.11	49.80	260.96	16.55
*	1300.000	2352.64	296.00	2.24	.79	6.54	4.04	.17	221.74	74.09	52.29	291.87	16.39
*	1300.000	2352.86	375.00	2.46	1.40	6.91	4.17	1.87	275.00	98.12	59.78	263.43	16.28
*	1430.000	2373.66	164.00	2.66	.00	6.20	.00	.00	164.00	.00	23.08	306.99	21.39
*	1430.000	2374.09	252.00	3.09	.00	6.72	.00	.00	252.00	.00	27.69	288.35	21.52
*	1430.000	2374.27	296.00	3.27	.00	6.92	.00	.00	296.00	.00	29.64	281.06	21.63
*	1430.000	2374.54	375.00	3.54	.00	7.34	.05	.00	375.00	.00	32.48	277.76	21.68
	1510.000	2386.85	164.00	1.95	4.14	5.20	.00	23.36	140.64	.00	33.86	261.66	13.19
	1510.000	2387.16	252.00	2.26	4.68	5.87	.00	35.80	216.20	.00	39.59	272.82	13.07
	1510.000	2387.30	296.00	2.40	4.91	6.16	.00	41.99	254.01	.00	41.94	278.04	13.02
	1510.000	2387.52	375.00	2.62	5.21	6.53	.00	53.10	321.90	.00	45.89	278.23	12.98
*	1610.000	2403.03	164.00	1.53	3.91	6.15	2.96	37.04	120.61	6.35	34.20	302.55	16.18
*	1610.000	2403.38	252.00	1.88	4.24	6.96	3.40	60.11	178.96	12.93	38.35	270.89	16.21
*	1610.000	2403.53	296.00	2.03	4.35	7.25	3.55	72.52	206.68	16.80	40.27	255.82	16.24
*	1610.000	2403.78	375.00	2.28	4.57	7.76	3.82	95.71	254.98	24.31	43.24	242.48	16.26
*	1700.000	2418.57	164.00	1.37	3.79	5.48	1.57	22.63	140.93	.44	39.59	329.39	15.54
*	1700.000	2418.87	252.00	1.67	4.02	6.21	2.18	35.58	214.08	2.33	44.54	286.20	15.50
*	1700.000	2419.01	296.00	1.81	4.10	6.47	2.29	42.52	249.26	4.22	47.46	267.80	15.48
*	1700.000	2419.23	375.00	2.03	4.26	6.90	2.51	55.50	310.32	9.18	52.12	247.46	15.45
*	1750.000	2427.75	164.00	1.15	3.11	5.52	2.55	17.14	136.00	10.87	44.01	278.04	9.18
*	1750.000	2428.05	252.00	1.45	3.43	6.23	2.95	30.03	199.03	22.93	49.98	249.57	9.18
*	1750.000	2428.19	296.00	1.59	3.66	6.46	3.08	38.24	227.81	29.94	52.48	234.93	9.18
*	1750.000	2428.39	375.00	1.79	4.09	6.90	3.33	53.95	277.79	43.25	56.04	225.37	9.16

ILLO WASH, TRIB.3

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	1360.000	.00	.00	.00	2162.00	164.00	2163.08	2163.08	2163.33	294.27	.88	43.92	9.56
*	1360.000	.00	.00	.00	2162.00	252.00	2163.28	2163.28	2163.55	286.61	1.90	66.61	14.89
	1360.000	.00	.00	.00	2162.00	296.00	2163.35	2163.35	2163.64	298.09	2.23	74.91	17.14
	1360.000	.00	.00	.00	2162.00	375.00	2163.46	.00	2163.78	299.85	2.70	90.26	21.66
	70.000	370.00	.00	.00	2172.50	164.00	2173.68	.00	2173.84	280.34	3.20	51.41	9.79
	70.000	370.00	.00	.00	2172.50	252.00	2173.85	.00	2174.08	288.43	3.84	66.39	14.84
	70.000	370.00	.00	.00	2172.50	296.00	2173.95	.00	2174.20	278.77	4.05	74.12	17.73
	70.000	370.00	.00	.00	2172.50	375.00	2174.07	.00	2174.37	278.70	4.45	85.86	22.46
*	160.000	480.00	.00	.00	2180.20	164.00	2182.65	.00	2182.87	134.19	3.72	44.56	14.16
*	160.000	480.00	.00	.00	2180.20	252.00	2183.04	.00	2183.32	136.95	4.32	60.74	21.53
*	160.000	480.00	.00	.00	2180.20	296.00	2183.18	.00	2183.50	141.75	4.60	67.82	24.86
	160.000	480.00	.00	.00	2180.20	375.00	2183.43	.00	2183.80	145.00	4.98	80.81	31.14
*	240.000	285.00	.00	.00	2187.40	164.00	2188.45	.00	2188.76	352.14	4.56	37.68	8.74
*	240.000	285.00	.00	.00	2187.40	252.00	2188.71	.00	2189.11	324.00	5.22	51.33	14.00
*	240.000	285.00	.00	.00	2187.40	296.00	2188.84	.00	2189.27	305.61	5.45	58.24	16.93
	240.000	285.00	.00	.00	2187.40	375.00	2189.04	.00	2189.52	289.25	5.84	69.52	22.05
*	260.000	100.00	.00	.00	2193.90	164.00	2195.41	2195.41	2195.80	395.04	7.05	34.49	8.25
*	260.000	100.00	.00	.00	2193.90	252.00	2195.70	2195.70	2196.17	385.38	7.84	48.17	12.84
*	260.000	100.00	.00	.00	2193.90	296.00	2195.82	2195.82	2196.33	377.70	8.13	54.86	15.23
*	260.000	100.00	.00	.00	2193.90	375.00	2196.03	2196.03	2196.57	366.88	8.56	66.40	19.58
*	280.000	80.00	.00	.00	2196.50	164.00	2208.64	.00	2208.64	.01	.15	1431.61	1579.77
*	280.000	80.00	.00	.00	2196.50	252.00	2209.10	.00	2209.10	.02	.21	1528.11	1728.78
*	280.000	80.00	.00	.00	2196.50	296.00	2209.23	.00	2209.23	.03	.25	1555.85	1772.18
*	280.000	80.00	.00	.00	2196.50	375.00	2209.44	.00	2209.44	.04	.30	1601.17	1843.59
*	290.000	70.00	.00	.00	2199.60	164.00	2208.64	.00	2208.64	.04	.22	832.29	835.75
*	290.000	70.00	.00	.00	2199.60	252.00	2209.10	.00	2209.10	.07	.32	890.39	926.16
*	290.000	70.00	.00	.00	2199.60	296.00	2209.23	.00	2209.23	.10	.37	906.90	952.40
*	290.000	70.00	.00	.00	2199.60	375.00	2209.44	.00	2209.44	.14	.46	933.77	995.57
*	410.000	620.00	.00	.00	2211.50	164.00	2213.43	2213.43	2213.86	369.09	5.30	32.52	8.54
*	410.000	620.00	.00	.00	2211.50	252.00	2213.75	2213.75	2214.25	339.36	5.86	45.99	13.68
*	410.000	620.00	.00	.00	2211.50	296.00	2213.87	2213.87	2214.42	344.88	6.18	51.20	15.94
*	410.000	620.00	.00	.00	2211.50	375.00	2214.05	2214.05	2214.70	355.10	6.69	59.70	19.90
	450.000	220.00	.00	.00	2219.50	164.00	2220.63	.00	2220.79	266.06	2.55	53.97	10.05
	450.000	220.00	.00	.00	2219.50	252.00	2220.80	.00	2221.00	271.78	3.17	72.38	15.29
	450.000	220.00	.00	.00	2219.50	296.00	2220.88	.00	2221.10	261.32	3.38	81.78	18.31
	450.000	220.00	.00	.00	2219.50	375.00	2221.02	.00	2221.25	244.80	3.69	97.73	23.97

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	460.000	50.00	.00	.00	2219.50	164.00	2225.76	.00	2225.76	.07	.23	740.76	599.12
*	460.000	50.00	.00	.00	2219.50	252.00	2226.48	.00	2226.48	.12	.31	851.19	741.74
*	460.000	50.00	.00	.00	2219.50	296.00	2226.67	.00	2226.67	.14	.36	880.89	781.69
*	460.000	50.00	.00	.00	2219.50	375.00	2226.93	.00	2226.93	.20	.43	921.92	837.95
*	480.000	130.00	.00	.00	2222.20	164.00	2225.76	.00	2225.77	4.59	1.15	161.05	76.52
*	480.000	130.00	.00	.00	2222.20	252.00	2226.47	.00	2226.50	4.46	1.32	218.09	119.39
*	480.000	130.00	.00	.00	2222.20	296.00	2226.66	.00	2226.69	5.01	1.45	234.08	132.27
*	480.000	130.00	.00	.00	2222.20	375.00	2226.92	.00	2226.96	6.17	1.68	256.56	150.98
*	570.000	480.00	.00	.00	2231.50	164.00	2233.57	2233.57	2234.12	377.62	6.19	28.70	8.44
*	570.000	480.00	.00	.00	2231.50	252.00	2233.98	2233.98	2234.63	315.44	6.80	40.97	14.19
*	570.000	480.00	.00	.00	2231.50	296.00	2234.15	2234.15	2234.84	297.85	7.05	46.57	17.15
*	570.000	480.00	.00	.00	2231.50	375.00	2234.40	2234.40	2235.19	295.09	7.61	55.04	21.83
	650.000	420.00	.00	.00	2244.80	164.00	2246.97	.00	2247.35	266.24	4.99	33.03	10.05
	650.000	420.00	.00	.00	2244.80	252.00	2247.26	2247.15	2247.84	313.35	6.14	41.69	14.24
	650.000	420.00	.00	.00	2244.80	296.00	2247.37	2247.34	2248.05	332.57	6.66	45.86	16.23
*	650.000	420.00	.00	.00	2244.80	375.00	2247.68	2247.68	2248.38	278.35	6.85	59.15	22.48
*	750.000	530.00	.00	.00	2260.70	164.00	2262.57	2262.57	2263.14	295.70	6.32	27.65	9.54
*	750.000	530.00	.00	.00	2260.70	252.00	2262.99	2262.99	2263.67	283.35	6.90	38.93	14.97
	750.000	530.00	.00	.00	2260.70	296.00	2263.18	2263.17	2263.89	269.76	7.04	44.81	18.02
*	750.000	530.00	.00	.00	2260.70	375.00	2263.47	2263.47	2264.24	256.40	7.31	54.39	23.42
*	860.000	580.00	.00	.00	2281.20	164.00	2282.76	2282.76	2283.22	269.43	6.33	33.18	9.99
*	860.000	580.00	.00	.00	2281.20	252.00	2283.09	2283.09	2283.64	250.24	7.11	46.73	15.93
*	860.000	580.00	.00	.00	2281.20	296.00	2283.23	2283.23	2283.82	246.00	7.44	53.02	18.87
*	860.000	580.00	.00	.00	2281.20	375.00	2283.45	2283.45	2284.10	236.13	7.92	64.32	24.40
	960.000	530.00	.00	.00	2294.10	164.00	2297.38	2297.37	2298.20	287.64	7.27	22.56	9.67
*	960.000	530.00	.00	.00	2294.10	252.00	2297.98	2297.98	2298.96	273.55	7.98	31.62	15.24
*	960.000	530.00	.00	.00	2294.10	296.00	2298.28	2298.28	2299.28	242.39	8.06	37.47	19.01
*	960.000	530.00	.00	.00	2294.10	375.00	2298.74	2298.74	2299.76	206.33	8.18	49.28	26.11
	1070.000	580.00	.00	.00	2310.80	164.00	2312.70	.00	2313.13	230.83	5.30	30.93	10.79
	1070.000	580.00	.00	.00	2310.80	252.00	2313.07	.00	2313.62	232.87	5.96	42.29	16.51
	1070.000	580.00	.00	.00	2310.80	296.00	2313.18	2313.15	2313.83	258.44	6.46	45.83	18.41
*	1070.000	580.00	.00	.00	2310.80	375.00	2313.41	2313.41	2314.16	266.09	6.94	54.01	22.99
*	1120.000	260.00	.00	.00	2318.80	164.00	2321.41	2321.41	2321.73	343.89	4.29	37.60	8.84
*	1120.000	260.00	.00	.00	2318.80	252.00	2321.59	2321.59	2322.04	378.82	5.38	48.22	12.95
*	1120.000	260.00	.00	.00	2318.80	296.00	2321.71	2321.71	2322.18	346.58	5.63	55.10	15.90
*	1120.000	260.00	.00	.00	2318.80	375.00	2321.84	2321.84	2322.41	358.96	6.30	63.53	19.79
*	1190.000	430.00	.00	.00	2333.50	164.00	2335.57	2335.57	2336.15	304.11	6.12	26.86	9.40
*	1190.000	430.00	.00	.00	2333.50	252.00	2336.02	2336.02	2336.67	263.75	6.48	39.59	15.52
*	1190.000	430.00	.00	.00	2333.50	296.00	2336.25	2336.25	2336.87	225.85	6.39	49.17	19.70
*	1190.000	430.00	.00	.00	2333.50	375.00	2336.58	2336.58	2337.15	183.04	6.25	68.31	27.72

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
	1300.000	580.00	.00	.00	2350.40	164.00	2352.27	.00	2352.66	270.20	5.37	34.79	9.98
*	1300.000	580.00	.00	.00	2350.40	252.00	2352.57	2352.57	2353.04	260.96	5.94	48.76	15.60
*	1300.000	580.00	.00	.00	2350.40	296.00	2352.64	2352.64	2353.20	291.87	6.54	52.46	17.33
*	1300.000	580.00	.00	.00	2350.40	375.00	2352.86	2352.86	2353.47	263.43	6.91	64.66	23.10
*	1430.000	680.00	.00	.00	2371.00	164.00	2373.66	2373.66	2374.25	306.99	6.20	26.46	9.36
*	1430.000	680.00	.00	.00	2371.00	252.00	2374.09	2374.09	2374.79	288.35	6.72	37.49	14.84
*	1430.000	680.00	.00	.00	2371.00	296.00	2374.27	2374.27	2375.02	281.06	6.92	42.75	17.66
*	1430.000	680.00	.00	.00	2371.00	375.00	2374.54	2374.54	2375.38	277.76	7.34	51.07	22.50
	1510.000	460.00	.00	.00	2384.90	164.00	2386.85	.00	2387.25	261.66	5.20	32.68	10.14
	1510.000	460.00	.00	.00	2384.90	252.00	2387.16	.00	2387.67	272.82	5.87	44.45	15.26
	1510.000	460.00	.00	.00	2384.90	296.00	2387.30	.00	2387.86	278.04	6.16	49.81	17.75
	1510.000	460.00	.00	.00	2384.90	375.00	2387.52	2387.49	2388.15	278.23	6.53	59.50	22.48
*	1610.000	530.00	.00	.00	2401.50	164.00	2403.03	2403.03	2403.52	302.55	6.15	31.23	9.43
*	1610.000	530.00	.00	.00	2401.50	252.00	2403.38	2403.38	2403.99	270.89	6.96	43.69	15.31
*	1610.000	530.00	.00	.00	2401.50	296.00	2403.53	2403.53	2404.19	255.82	7.25	49.92	18.51
*	1610.000	530.00	.00	.00	2401.50	375.00	2403.78	2403.78	2404.51	242.48	7.76	60.18	24.08
*	1700.000	480.00	.00	.00	2417.20	164.00	2418.57	2418.57	2419.01	329.39	5.48	31.97	9.04
*	1700.000	480.00	.00	.00	2417.20	252.00	2418.87	2418.87	2419.42	286.20	6.21	44.38	14.90
*	1700.000	480.00	.00	.00	2417.20	296.00	2419.01	2419.01	2419.60	267.80	6.47	50.73	18.09
*	1700.000	480.00	.00	.00	2417.20	375.00	2419.23	2419.23	2419.89	247.46	6.90	61.68	23.84
*	1750.000	260.00	.00	.00	2426.60	164.00	2427.75	2427.75	2428.17	278.04	5.52	34.39	9.84
*	1750.000	260.00	.00	.00	2426.60	252.00	2428.05	2428.05	2428.56	249.57	6.23	48.47	15.95
*	1750.000	260.00	.00	.00	2426.60	296.00	2428.19	2428.19	2428.73	234.93	6.46	55.44	19.31
*	1750.000	260.00	.00	.00	2426.60	375.00	2428.39	2428.39	2429.00	225.37	6.90	66.42	24.98

ILLO WASH, TRIB.3

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	1360.000	164.00	2163.08	.00	.00	.00	109.98	.00
*	1360.000	252.00	2163.28	.20	.00	-.00	121.73	.00
	1360.000	296.00	2163.35	.07	.00	-.01	125.75	.00
	1360.000	375.00	2163.46	.12	.00	.01	132.88	.00
	70.000	164.00	2173.68	.00	10.60	.00	87.30	370.00
	70.000	252.00	2173.85	.17	10.57	.00	89.20	370.00
	70.000	296.00	2173.95	.09	10.60	.00	90.17	370.00
	70.000	375.00	2174.07	.12	10.60	.00	91.61	370.00
*	160.000	164.00	2182.65	.00	8.97	.00	38.17	480.00
*	160.000	252.00	2183.04	.38	9.18	.00	46.83	480.00
*	160.000	296.00	2183.18	.14	9.24	.00	50.14	480.00
	160.000	375.00	2183.43	.25	9.36	.00	55.72	480.00
*	240.000	164.00	2188.45	.00	5.80	.00	50.35	285.00
*	240.000	252.00	2188.71	.26	5.68	.00	54.33	285.00
*	240.000	296.00	2188.84	.13	5.66	.00	56.24	285.00
	240.000	375.00	2189.04	.19	5.61	.00	59.23	285.00
*	260.000	164.00	2195.41	.00	6.95	.00	42.82	100.00
*	260.000	252.00	2195.70	.29	6.98	.00	50.82	100.00
*	260.000	296.00	2195.82	.13	6.98	.00	54.51	100.00
*	260.000	375.00	2196.03	.20	6.99	.00	60.34	100.00
*	280.000	164.00	2208.64	.00	13.23	.00	206.64	80.00
*	280.000	252.00	2209.10	.46	13.40	.00	212.74	80.00
*	280.000	296.00	2209.23	.13	13.41	.00	214.47	80.00
*	280.000	375.00	2209.44	.21	13.41	.00	217.25	80.00
*	290.000	164.00	2208.64	.00	.00	.00	125.30	70.00
*	290.000	252.00	2209.10	.46	.00	.00	127.17	70.00
*	290.000	296.00	2209.23	.13	.00	.00	127.69	70.00
*	290.000	375.00	2209.44	.21	.00	.00	128.54	70.00
*	410.000	164.00	2213.43	.00	4.79	.00	41.71	620.00
*	410.000	252.00	2213.75	.32	4.65	.00	43.79	620.00
*	410.000	296.00	2213.87	.12	4.64	.00	44.57	620.00
*	410.000	375.00	2214.05	.19	4.61	.00	45.81	620.00
	450.000	164.00	2220.63	.00	7.20	.00	112.40	220.00
	450.000	252.00	2220.80	.17	7.05	.00	115.75	220.00
	450.000	296.00	2220.88	.08	7.01	.00	117.43	220.00
	450.000	375.00	2221.02	.14	6.96	.00	120.01	220.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	460.000	164.00	2225.76	.00	5.13	.00	151.03	50.00
*	460.000	252.00	2226.48	.72	5.68	.00	155.73	50.00
*	460.000	296.00	2226.67	.19	5.79	.00	156.98	50.00
*	460.000	375.00	2226.93	.26	5.91	.00	158.68	50.00
*	480.000	164.00	2225.76	.00	-.00	.00	75.06	130.00
*	480.000	252.00	2226.47	.72	-.01	.00	83.42	130.00
*	480.000	296.00	2226.66	.19	-.01	.00	85.62	130.00
*	480.000	375.00	2226.92	.26	-.01	.00	88.50	130.00
*	570.000	164.00	2233.57	.00	7.81	.00	27.70	480.00
*	570.000	252.00	2233.98	.41	7.51	.00	31.62	480.00
*	570.000	296.00	2234.15	.17	7.49	.00	33.50	480.00
*	570.000	375.00	2234.40	.24	7.48	.00	36.16	480.00
	650.000	164.00	2246.97	.00	13.40	.00	27.87	420.00
	650.000	252.00	2247.26	.29	13.28	.00	34.12	420.00
	650.000	296.00	2247.37	.11	13.22	.00	38.08	420.00
*	650.000	375.00	2247.68	.31	13.28	.00	46.73	420.00
*	750.000	164.00	2262.57	.00	15.60	.00	24.51	530.00
*	750.000	252.00	2262.99	.42	15.73	.00	29.13	530.00
	750.000	296.00	2263.18	.20	15.81	.00	31.26	530.00
	750.000	375.00	2263.47	.29	15.80	.00	34.45	530.00
*	860.000	164.00	2282.76	.00	20.20	.00	38.27	580.00
*	860.000	252.00	2283.09	.33	20.10	.00	44.68	580.00
*	860.000	296.00	2283.23	.14	20.04	.00	47.36	580.00
*	860.000	375.00	2283.45	.23	19.98	.00	51.82	580.00
	960.000	164.00	2297.38	.00	14.61	.00	13.78	530.00
*	960.000	252.00	2297.98	.60	14.89	.00	17.13	530.00
*	960.000	296.00	2298.28	.30	15.05	.00	21.73	530.00
*	960.000	375.00	2298.74	.47	15.29	.00	28.86	530.00
	1070.000	164.00	2312.70	.00	15.32	.00	28.12	580.00
	1070.000	252.00	2313.07	.37	15.10	.00	32.48	580.00
	1070.000	296.00	2313.18	.11	14.91	.00	33.72	580.00
*	1070.000	375.00	2313.41	.23	14.67	.00	36.43	580.00
*	1120.000	164.00	2321.41	.00	8.72	.00	57.81	260.00
*	1120.000	252.00	2321.59	.18	8.52	.00	60.05	260.00
*	1120.000	296.00	2321.71	.11	8.53	.00	61.46	260.00
*	1120.000	375.00	2321.84	.14	8.43	.00	63.14	260.00
*	1190.000	164.00	2335.57	.00	14.15	.00	24.46	430.00
*	1190.000	252.00	2336.02	.45	14.42	.00	35.60	430.00
*	1190.000	296.00	2336.25	.23	14.54	.00	48.27	430.00
*	1190.000	375.00	2336.58	.34	14.74	.00	63.07	430.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1300.000	164.00	2352.27	.00	16.70	.00	41.35	580.00
*	1300.000	252.00	2352.57	.30	16.55	.00	49.80	580.00
*	1300.000	296.00	2352.64	.07	16.39	.00	52.29	580.00
*	1300.000	375.00	2352.86	.22	16.28	.00	59.78	580.00
*	1430.000	164.00	2373.66	.00	21.39	.00	23.08	680.00
*	1430.000	252.00	2374.09	.43	21.52	.00	27.69	680.00
*	1430.000	296.00	2374.27	.18	21.63	.00	29.64	680.00
*	1430.000	375.00	2374.54	.27	21.68	.00	32.48	680.00
	1510.000	164.00	2386.85	.00	13.19	.00	33.86	460.00
	1510.000	252.00	2387.16	.31	13.07	.00	39.59	460.00
	1510.000	296.00	2387.30	.14	13.02	.00	41.94	460.00
	1510.000	375.00	2387.52	.22	12.98	.00	45.89	460.00
*	1610.000	164.00	2403.03	.00	16.18	.00	34.20	530.00
*	1610.000	252.00	2403.38	.34	16.21	.00	38.35	530.00
*	1610.000	296.00	2403.53	.16	16.24	.00	40.27	530.00
*	1610.000	375.00	2403.78	.25	16.26	.00	43.24	530.00
*	1700.000	164.00	2418.57	.00	15.54	.00	39.59	480.00
*	1700.000	252.00	2418.87	.30	15.50	.00	44.54	480.00
*	1700.000	296.00	2419.01	.14	15.48	.00	47.46	480.00
*	1700.000	375.00	2419.23	.22	15.45	.00	52.12	480.00
*	1750.000	164.00	2427.75	.00	9.18	.00	44.01	260.00
*	1750.000	252.00	2428.05	.30	9.18	.00	49.98	260.00
*	1750.000	296.00	2428.19	.14	9.18	.00	52.48	260.00
*	1750.000	375.00	2428.39	.20	9.16	.00	56.04	260.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1360.000  PROFILE=  2  CRITICAL DEPTH ASSUMED

WARNING SECNO=    160.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    240.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    240.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    240.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

        SECNO=    280.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    280.000  PROFILE=  4  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    290.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    290.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    460.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  2  WSEL BASED ON X5 CARD
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WARNING SECNO=    460.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  3  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  4  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    480.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    480.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    480.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    480.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    650.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    650.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    750.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    750.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    750.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    750.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    750.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    750.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    960.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    960.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    960.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    960.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    960.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    960.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1070.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1070.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1700.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1700.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1750.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1750.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1750.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1750.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
```

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*****************************************************
*  WATER SURFACE PROFILES                           *
*  VERSION OF SEPTEMBER 1988                        *
*  ERROR: 01,02,03                                  *
*  UPDATED:  SEPTEMBER 1989                         *
*  RUN DATE     9/27/90    TIME    13:58: 4         *
*****************************************************
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*            (916) 756-1104
****************************************
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OCT 3 ...
9-27-...

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X         XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
```

END OF BANNER

THIS RUN EXECUTED 9/27/90 13:58: 4

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**************************************************
  HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989


  ERROR CORR -  01,02,03
  MODIFICATION -
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2       100-YR FLOOD FREQUENCY MODEL (NATURAL CONDITIONS)
T3       OCOTILLO TRIB.3         (OCT3.MCE)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                2                                                                  2163.08

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1                  -1


VARIABLE CODES FOR SUMMARY PRINTOUT

    38        43        26         8        42        39         1        34         4        53
    21        22        54         0        38        43         1        50        51        27
    21        22        28         5         3        61       200

J5  LPRNT    NUMSEC                    ********REQUESTED SECTION NUMBERS********

   -10       -10

QT       2       296       296
NC    .055      .055      .055        .1        .3
ET                         4.1    9913.3   10246.9
        ****** STREAM REACH DISTANCES REVISED 9-27-90
        ****** CWSEL's AT 280 AND 460 ARE SET WITH X5 CARD ******
        THIS ENCROACHMENT FILE IS BASED ON A PREVIOUS HEC-2 MODEL OF
        NATURAL CONDITIONS.  REFER TO FILE OCT3.OUT (CH2M HILL, 1990)

X1     1360        24    9950.0   10020.0
GR   2184.0    9870.0    2180.0    9885.0    2172.0    9900.0    2168.0    9905.0    2164.0    9910.0
GR   2163.0    9915.0    2164.0    9925.0    2164.0    9950.0    2163.0    9960.0    2163.0   10015.0
GR   2164.0   10020.0    2164.0   10180.0    2162.0   10200.0    2162.0   10220.0    2164.0   10260.0
GR   2168.0   10370.0    2176.0   10400.0    2177.0   10430.0    2176.0   10460.0    2172.0   10490.0
GR   2172.0   10510.0    2176.0   10520.0    2180.0   10560.0    2182.0   10580.0
```

ET			4.1	9937.34	10025.9					
X1	70	15	9945.2	10024.4	270	250	260			
GR	2190.0	9853.7	2191.2	9869.5	2184.4	9897.0	2175.4	9927.6	2172.5	9945.2
GR	2173.0	9969.9	2173.0	9974.0	2173.4	9990.3	2173.1	10000.0	2173.5	10024.4
GR	2175.6	10035.2	2184.3	10077.2	2187.7	10102.7	2189.0	10133.0	2188.6	10133.5
ET			4.1	9956.9	10010.9					
X1	160	16	9974.1	10014.9	490	470	480			
GR	2197.2	9837.7	2193.7	9865.3	2192.5	9901.1	2185.8	9915.8	2184.8	9930.7
GR	2182.4	9974.1	2180.2	9996.3	2181.0	10000.0	2184.2	10014.9	2185.1	10022.0
GR	2185.8	10043.9	2188.4	10070.6	2195.1	10108.7	2199.7	10145.7	2201.2	10184.1
GR	2200.6	10200.0								
NC	.055	.055	.055	.3	.5					
ET			4.1	9987.5	10042.4					
X1	240	15	10000.0	10039.5	450	450	450		-4.5	
GR	2213.0	9864.9	2209.8	9881.7	2199.7	9916.1	2196.4	9938.2	2194.6	9969.9
GR	2192.3	10000.0	2191.9	10039.5	2195.5	10047.4	2202.9	10057.5	2206.5	10077.0
GR	2207.4	10101.8	2208.7	10118.0	2209.5	10131.7	2200.6	10161.3	2194.7	10180.8
ET			4.1	9980.0	10026.0					
X1	260	14	10021.3	10024.3	100	100	100			
GR	2212.8	9790.9	2213.2	9818.9	2210.4	9853.6	2203.2	9885.5	2200.4	9913.0
GR	2196.1	9964.0	2193.9	10021.3	2193.9	10024.3	2195.6	10025.0	2204.1	10050.4
GR	2208.4	10076.4	2209.7	10101.5	2208.0	10115.1	2199.8	10138.0		
ET			4.1	9975.0	10060.0					
X1	280				80	80	80		2.6	
X5	1	2209.23	2209.23							
ET			4.1	9965.0	10065.0					
X1	290	14	9966.1	10000.0	60	60	60			
GR	2219.1	9894.6	2217.7	9920.1	2211.9	9935.2	2203.6	9947.8	2199.6	9966.1
GR	2200.2	9987.3	2199.8	10000.0	2201.4	10019.1	2203.8	10053.2	2210.2	10069.4
GR	2212.5	10095.0	2217.2	10123.4	2219.9	10167.0	2221.0	10185.3		
ET			4.1	9986.9	10031.3					
X1	410	14	10000.0	10033.2	635	635	635			
GR	2232.7	9884.4	2233.5	9929.3	2232.7	9946.4	2229.7	9963.2	2224.8	9973.8
GR	2213.3	9987.5	2213.2	10000.0	2211.5	10018.6	2214.2	10033.2	2214.8	10057.1
GR	2216.3	10083.8	2215.8	10084.6	2224.3	10107.4	2231.7	10119.6		
ET			4.1	9920.8	10020.0					
X1	450	15	9986.7	10000.0	210	210	210			
GR	2235.5	9834.9	2234.8	9850.8	2228.2	9880.2	2221.0	9912.7	2219.5	9940.9
GR	2220.2	9969.1	2220.2	9986.7	2220.2	10000.0	2220.6	10015.5	2220.4	10031.4
GR	2229.2	10049.2	2229.3	10085.3	2232.7	10099.5	2238.0	10125.2	2239.9	10149.1

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ET                          4.1     9920.0    10030.0
X1     460                             30         30         30                  0.6
X5       1   2226.67    2226.67

ET                          4.1     9960.2    10030.0
X1     480        13   10000.0    10027.5       110        110        110
GR  2241.7    9891.3    2241.1     9907.7    2235.1     9928.1    2226.9     9954.7    2224.7     9973.0
GR  2222.5   10000.0    2223.5    10018.1    2222.2    10027.5    2227.1    10043.7    2230.5    10072.9
GR  2234.6   10098.1    2240.5    10116.7    2242.1    10135.7

NC    .055      .055      .055        .1        .3
ET                 /       4.1     9985.5    10018.8
X1     570        10   10000.0    10018.4       480        480        480
GR  2252.4    9911.8    2244.9     9937.5    2236.5     9961.0    2233.9     9988.0    2232.5    10000.0
GR  2231.5   10005.8    2233.3    10018.4    2234.4    10019.0    2245.8    10042.8    2250.6    10067.0

ET                          4.1     9991.1    10029.3
X1     650        11   10000.0    10027.7       420        420        420
GR  2263.4    9867.7    2263.2     9918.9    2261.0     9932.6    2250.1     9964.7    2247.6     9983.8
GR  2247.1   10000.0    2244.8    10012.2    2246.5    10027.7    2260.2    10053.8    2264.0    10101.9
GR  2263.6   10108.9

NC    .055      .055      .045
ET                          4.1     9983.8    10014.9
X      750        16    9975.6    10007.4       530        530        530
  2278.3    9840.0    2276.4     9926.4    2273.8     9948.9    2264.4     9973.5    2264.2     9975.6
GR  2261.3    9998.6    2260.7    10000.0    2260.7    10007.4    2263.3    10015.3    2267.2    10026.9
GR  2269.5   10035.0    2273.2    10053.7    2274.4    10067.5    2273.7    10089.4    2275.1    10093.9
GR  2275.4   10126.6

ET                          4.1     9988.0    10035.3
X1     860        10   10000.0    10011.1       560        590        580
GR  2291.1    9848.0    2290.9     9908.6    2286.3     9960.4    2283.7     9984.0    2281.8    10000.0
GR  2281.2   10011.1    2282.3    10025.0    2286.2    10068.6    2289.6    10131.7    2289.4    10139.0

ET                          4.1     9983.3    10004.8
X1     960        16    9981.4    10000.0       540        550        530
GR  2303.1    9846.2    2304.9     9900.1    2304.4     9916.7    2301.6     9952.0    2300.4     9960.4
GR  2299.1    9981.4    2294.1     9992.3    2297.9    10000.0    2299.2    10017.0    2299.1    10026.2
GR  2304.5   10054.2    2306.1    10061.6    2306.4    10095.5    2304.9    10110.8    2308.8    10129.6
GR  2308.4   10191.0

ET                          4.1     9985.6    10019.3
X1    1070        12    9974.8    10031.0       600        560        580
GR  2321.3    9827.9    2320.0     9883.3    2316.8     9909.4    2314.8     9944.2    2314.5     9972.5
GR  2314.6    9974.8    2311.3    10000.0    2310.8    10009.9    2316.1    10031.0    2318.8    10042.2
GR  2319.4   10090.0    2319.2    10132.0
```

ET			4.1	9990.8	10052.2					
X1	1120	20	9996.5	10037.5	250	260	260			
GR	2329.7	9736.7	2330.0	9807.0	2328.7	9848.4	2327.5	9868.6	2328.2	9879.1
GR	2328.5	9916.7	2325.9	9945.3	2326.0	9953.8	2325.4	9970.6	2323.0	9988.2
GR	2318.8	9996.5	2320.7	10000.0	2321.1	10015.9	2321.1	10028.5	2320.3	10037.5
GR	2322.5	10060.5	2327.0	10069.6	2327.2	10125.0	2329.5	10186.9	2332.4	10305.1
ET			4.1	9963.2	10022.9					
X1	1190	11	9992.6	10027.6	430	430	430			
GR	2338.0	9926.6	2338.3	9960.7	2335.4	9964.1	2336.5	9966.2	2335.9	9992.6
GR	2333.5	9998.0	2333.5	10000.0	2336.8	10027.6	2337.7	10039.6	2339.0	10077.8
GR	2340.5	10131.9								
ET			4.1	9997.1	10049.3					
X1	1300	9	10000.0	10027.0	560	540	580			
GR	2356.8	9863.0	2353.8	9973.0	2352.5	10000.0	2350.4	10024.7	2351.0	10027.0
GR	2353.3	10058.3	2354.8	10078.8	2355.4	10106.1	2356.1	10145.0		
ET			4.1	9988.8	10018.3					
X1	1430	17	9984.9	10020.2	670	660	680			
GR	2380.4	9740.9	2379.9	9814.9	2378.1	9835.3	2378.9	9871.0	2378.0	9896.4
GR	2379.5	9929.2	2379.0	9948.8	2374.7	9956.1	2376.1	9958.4	2375.8	9984.9
GR	2371.0	9997.0	2372.0	10000.0	2374.5	10020.2	2377.4	10044.2	2377.6	10055.9
GR	2378.2	10090.5	2378.3	10128.4						
			4.1	9992.9	10034.8					
X1	1510	8	10000.0	10052.7	440	450	460			
GR	2393.7	9897.9	2393.7	9923.8	2392.8	9957.5	2391.0	9981.9	2384.9	10000.0
GR	2386.2	10018.4	2388.5	10052.7	2389.8	10106.2				
ET			4.1	9983.6	10023.8					
X1	1610	14	10000.0	10017.7	520	540	530			
GR	2405.2	9785.0	2406.7	9814.6	2404.0	9842.8	2404.5	9885.6	2406.0	9947.2
GR	2404.8	9973.4	2401.5	10000.0	2402.0	10005.4	2402.0	10017.7	2406.5	10035.8
GR	2407.3	10059.9	2407.7	10101.7	2408.8	10152.2	2409.3	10153.7		
ET			4.1	9988.4	10132.6					
X1	1700	13	10000.0	10029.4	490	470	480			
GR	2422.1	9818.6	2422.3	9860.5	2421.2	9903.1	2421.0	9957.2	2420.3	9980.4
GR	2417.2	10000.0	2418.2	10029.4	2418.7	10031.4	2420.9	10064.1	2419.9	10110.6
GR	2418.7	10127.6	2420.5	10154.8	2420.4	10182.7				
ET			4.1	9987.1	10039.5					
X1	1750	9	10000.0	10024.5	260	280	260			
GR	2429.8	9827.0	2429.1	9909.0	2430.3	9967.3	2429.5	9979.3	2428.1	9987.6
GR	2426.6	10000.0	2426.9	10024.5	2430.4	10065.3	2433.0	10142.2		

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     FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2   100-YR FLOOD FREQUENCY MODEL  (ENCROACHMENT CONDITIONS)
T3   OCOTILLO TRIB. 3       (OCT3.MCE)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              3                                                     2164.08

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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THIS RUN EXECUTED 9/27/90 13:58:28

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

OCOTILLO TRIB.3

SUMMARY PRINTOUT

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	1360.000	296.00	2.23	1.34	2162.00	.00	2163.34	17.09	125.67	9913.28	9950.00	10020.00	10246.89
	1360.000	296.00	1.37	2.08	2162.00	.00	2164.08	57.23	333.60	9913.30	9950.00	10020.00	10246.90
*	70.000	296.00	4.85	1.30	2172.50	260.00	2173.80	13.10	88.58	9937.34	9945.20	10024.40	10025.92
	70.000	296.00	4.85	1.30	2172.50	260.00	2173.80	13.10	88.56	9937.34	9945.20	10024.40	10025.90
*	160.000	296.00	4.12	3.15	2180.20	480.00	2183.35	29.15	54.04	9956.91	9974.10	10014.90	10010.95
*	160.000	296.00	4.12	3.14	2180.20	480.00	2183.34	29.17	53.99	9956.91	9974.10	10014.90	10010.90
	240.000	296.00	4.46	1.68	2187.40	450.00	2189.08	23.26	59.88	9983.30	10000.00	10039.50	10043.18
	240.000	296.00	4.45	1.67	2187.40	450.00	2189.07	23.25	54.90	9987.50	10000.00	10039.50	10042.40
*	260.000	296.00	8.08	1.93	2193.90	100.00	2195.83	15.34	54.67	9971.02	10021.30	10024.30	10025.69
*	260.000	296.00	7.95	1.89	2193.90	100.00	2195.79	15.38	45.56	9980.00	10021.30	10024.30	10025.56
*	280.000	296.00	.25	12.73	2196.50	80.00	2209.23	1772.18	214.47	9870.30	10021.30	10024.30	10138.00
*	280.000	296.00	.49	12.73	2196.50	80.00	2209.23	897.09	85.00	9975.00	10021.30	10024.30	10060.00
*	290.000	296.00	.37	9.63	2199.60	60.00	2209.23	952.40	127.69	9939.25	9966.10	10000.00	10066.94
	290.000	296.00	.44	9.63	2199.60	60.00	2209.23	800.48	100.00	9965.00	9966.10	10000.00	10065.00
*	410.000	296.00	6.18	2.37	2211.50	635.00	2213.87	15.94	44.57	9986.83	10000.00	10033.20	10031.39
*	410.000	296.00	6.19	2.36	2211.50	635.00	2213.86	15.92	44.40	9986.90	10000.00	10033.20	10031.30
	450.000	296.00	3.46	1.36	2219.50	210.00	2220.86	17.52	117.01	9915.33	9986.70	10000.00	10032.33
	450.000	296.00	3.51	1.37	2219.50	210.00	2220.87	17.43	99.20	9920.80	9986.70	10000.00	10020.00
*	460.000	296.00	.40	6.57	2220.10	30.00	2226.67	658.78	153.05	9889.82	9986.70	10000.00	10042.87
*	460.000	296.00	.48	6.57	2220.10	30.00	2226.67	546.26	110.00	9920.00	9986.70	10000.00	10030.00
*	480.000	296.00	1.45	4.46	2222.20	110.00	2226.66	132.30	85.63	9956.64	10000.00	10027.50	10042.27
*	480.000	296.00	1.57	4.46	2222.20	110.00	2226.66	121.60	69.80	9960.20	10000.00	10027.50	10030.00

	SECNO	Q	VCH	DEPTH	ELMIN	XLCH	CWSEL	.01K	TOPWID	SSTA	STCHL	STCHR	ENDST
*	570.000	296.00	7.06	2.65	2231.50	480.00	2234.15	17.12	33.48	9985.38	10000.00	10018.40	10018.87
*	570.000	296.00	7.06	2.65	2231.50	480.00	2234.15	17.12	33.30	9985.50	10000.00	10018.40	10018.80
	650.000	296.00	6.65	2.57	2244.80	420.00	2247.37	16.27	38.15	9991.21	10000.00	10027.70	10029.36
	650.000	296.00	6.65	2.57	2244.80	420.00	2247.37	16.26	38.08	9991.22	10000.00	10027.70	10029.30
	750.000	296.00	7.05	2.48	2260.70	530.00	2263.18	17.99	31.24	9983.69	9975.60	10007.40	10014.93
	750.000	296.00	7.06	2.48	2260.70	530.00	2263.18	17.99	31.10	9983.80	9975.60	10007.40	10014.90
*	860.000	296.00	7.43	2.03	2281.20	580.00	2283.23	18.94	47.42	9987.97	10000.00	10011.10	10035.39
*	860.000	296.00	7.28	2.05	2281.20	580.00	2283.25	19.48	47.30	9988.00	10000.00	10011.10	10035.30
*	960.000	296.00	8.07	4.18	2294.10	530.00	2298.28	19.00	21.72	9983.20	9981.40	10000.00	10004.92
*	960.000	296.00	8.05	4.18	2294.10	530.00	2298.28	19.12	21.50	9983.30	9981.40	10000.00	10004.80
	1070.000	296.00	6.46	2.38	2310.80	580.00	2313.18	18.43	33.73	9985.64	9974.80	10031.00	10019.38
	1070.000	296.00	6.49	2.37	2310.80	580.00	2313.17	18.30	33.60	9985.70	9974.80	10031.00	10019.30
*	1120.000	296.00	5.63	2.91	2318.80	260.00	2321.71	15.88	61.45	9990.76	9996.50	10037.50	10052.20
*	1120.000	296.00	5.56	2.92	2318.80	260.00	2321.72	16.24	61.40	9990.80	9996.50	10037.50	10052.20
*	1190.000	296.00	6.39	2.75	2333.50	430.00	2336.25	19.72	48.33	9963.11	9992.60	10027.60	10022.99
*	1190.000	296.00	6.49	2.73	2333.50	430.00	2336.23	19.30	47.10	9963.20	9992.60	10027.60	10022.81
	1300.000	296.00	6.54	2.24	2350.40	580.00	2352.64	17.31	52.27	9997.06	10000.00	10027.00	10049.34
*	1300.000	296.00	6.30	2.28	2350.40	580.00	2352.68	18.36	52.20	9997.10	10000.00	10027.00	10049.30
*	1430.000	296.00	6.93	3.27	2371.00	680.00	2374.27	17.64	29.63	9988.75	9984.90	10020.20	10018.37
*	1430.000	296.00	6.99	3.26	2371.00	680.00	2374.26	17.44	29.47	9988.80	9984.90	10020.20	10018.27
	1510.000	296.00	6.15	2.40	2384.90	460.00	2387.30	17.77	41.96	9992.87	10000.00	10052.70	10034.83
	1510.000	296.00	6.11	2.41	2384.90	460.00	2387.31	17.96	41.90	9992.90	10000.00	10052.70	10034.80
*	1610.000	296.00	7.25	2.03	2401.50	530.00	2403.53	18.51	40.27	9983.60	10000.00	10017.70	10023.87
*	1610.000	296.00	7.07	2.07	2401.50	530.00	2403.57	19.23	40.20	9983.60	10000.00	10017.70	10023.80
*	1700.000	296.00	6.30	1.83	2417.20	480.00	2419.03	18.81	57.78	9988.40	10000.00	10029.40	10132.66
*	1700.000	296.00	6.18	1.86	2417.20	480.00	2419.06	19.38	58.33	9988.40	10000.00	10029.40	10132.60
*	1750.000	296.00	6.47	1.59	2426.60	260.00	2428.19	19.27	52.45	9987.07	10000.00	10024.50	10039.52
*	1750.000	296.00	6.34	1.61	2426.60	260.00	2428.21	19.82	52.40	9987.10	10000.00	10024.50	10039.50

ILLO TRIB.3

SUMMARY PRINTOUT

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
*	1360.000	296.00	2163.34	.00	.00	.00	9950.00	10020.00	.00	299.88	2163.64	.00
	1360.000	296.00	2164.08	.74	.00	9913.30	9950.00	10020.00	10246.90	26.75	2164.12	.48
*	70.000	296.00	2173.80	.00	10.45	.00	9945.20	10024.40	.00	510.28	2174.16	.00
*	70.000	296.00	2173.80	.00	9.72	9937.34	9945.20	10024.40	10025.90	510.86	2174.16	.00
*	160.000	296.00	2183.35	.00	9.55	.00	9974.10	10014.90	.00	103.12	2183.60	.00
*	160.000	296.00	2183.34	-.00	9.55	9956.90	9974.10	10014.90	10010.90	102.99	2183.60	-.00
	240.000	296.00	2189.08	.00	5.73	.00	10000.00	10039.50	.00	161.99	2189.36	.00
	240.000	296.00	2189.07	-.01	5.73	9987.50	10000.00	10039.50	10042.40	162.15	2189.35	-.01
*	260.000	296.00	2195.83	.00	6.75	.00	10021.30	10024.30	.00	372.21	2196.33	.00
*	260.000	296.00	2195.79	-.04	6.72	9980.00	10021.30	10024.30	10026.00	370.36	2196.33	.01
*	280.000	296.00	2209.23	.00	13.40	.00	10021.30	10024.30	.00	.03	2209.23	.00
*	280.000	296.00	2209.23	.00	13.44	9975.00	10021.30	10024.30	10060.00	.11	2209.23	.00
*	290.000	296.00	2209.23	.00	.00	.00	9966.10	10000.00	.00	.10	2209.23	.00
	290.000	296.00	2209.23	.00	.00	9965.00	9966.10	10000.00	10065.00	.14	2209.23	.00
*	410.000	296.00	2213.87	.00	4.64	.00	10000.00	10033.20	.00	344.68	2214.42	.00
*	410.000	296.00	2213.86	-.00	4.63	9986.90	10000.00	10033.20	10031.30	345.72	2214.42	.00
	450.000	296.00	2220.86	.00	7.00	.00	9986.70	10000.00	.00	285.59	2221.09	.00
	450.000	296.00	2220.87	.01	7.01	9920.80	9986.70	10000.00	10020.00	288.30	2221.13	.04
*	460.000	296.00	2226.67	.00	5.81	.00	9986.70	10000.00	.00	.20	2226.67	.00
*	460.000	296.00	2226.67	.00	5.80	9920.00	9986.70	10000.00	10030.00	.29	2226.67	.00
*	480.000	296.00	2226.66	.00	-.01	.00	10000.00	10027.50	.00	5.01	2226.69	.00
*	480.000	296.00	2226.66	.00	-.01	9960.20	10000.00	10027.50	10030.00	5.93	2226.70	.01
*	570.000	296.00	2234.15	.00	7.49	.00	10000.00	10018.40	.00	299.08	2234.84	.00
*	570.000	296.00	2234.15	.00	7.49	9985.50	10000.00	10018.40	10018.80	298.77	2234.84	.00
	650.000	296.00	2247.37	.00	13.22	.00	10000.00	10027.70	.00	331.13	2248.05	.00
	650.000	296.00	2247.37	-.00	13.22	9991.10	10000.00	10027.70	10029.30	331.27	2248.05	-.00
	750.000	296.00	2263.18	.00	15.81	.00	9975.60	10007.40	.00	270.73	2263.89	.00
	750.000	296.00	2263.18	-.00	15.81	9983.80	9975.60	10007.40	10014.90	270.73	2263.89	.00
*	860.000	296.00	2283.23	.00	20.05	.00	10000.00	10011.10	.00	244.14	2283.82	.00
*	860.000	296.00	2283.25	.02	20.08	9988.00	10000.00	10011.10	10035.30	230.81	2283.81	-.00
*	960.000	296.00	2298.28	.00	15.05	.00	9981.40	10000.00	.00	242.72	2299.28	.00
*	960.000	296.00	2298.28	.01	15.03	9983.30	9981.40	10000.00	10004.80	239.63	2299.28	.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	STENCL	STCHL	STCHR	STENCR	10*KS	EG	DIFEG
	1070.000	296.00	2313.18	.00	14.91	.00	9974.80	10031.00	.00	258.06	2313.83	.00
	1070.000	296.00	2313.17	-.01	14.89	9985.60	9974.80	10031.00	10019.30	261.51	2313.83	-.00
*	1120.000	296.00	2321.71	.00	8.52	.00	9996.50	10037.50	.00	347.44	2322.18	.00
*	1120.000	296.00	2321.72	.01	8.54	9990.80	9996.50	10037.50	10052.20	332.31	2322.18	.00
*	1190.000	296.00	2336.25	.00	14.54	.00	9992.60	10027.60	.00	225.39	2336.87	.00
*	1190.000	296.00	2336.23	-.02	14.51	9963.20	9992.60	10027.60	10022.90	235.24	2336.87	.00
*	1300.000	296.00	2352.64	.00	16.39	.00	10000.00	10027.00	.00	292.27	2353.20	.00
*	1300.000	296.00	2352.68	.04	16.45	9997.10	10000.00	10027.00	10049.30	259.78	2353.20	-.00
*	1430.000	296.00	2374.27	.00	21.63	.00	9984.90	10020.20	.00	281.56	2375.02	.00
*	1430.000	296.00	2374.26	-.01	21.58	9988.80	9984.90	10020.20	10018.30	287.94	2375.02	.00
	1510.000	296.00	2387.30	.00	13.03	.00	10000.00	10052.70	.00	277.57	2387.86	.00
	1510.000	296.00	2387.31	.01	13.05	9992.90	10000.00	10052.70	10034.80	271.49	2387.86	.00
*	1610.000	296.00	2403.53	.00	16.23	.00	10000.00	10017.70	.00	255.82	2404.19	.00
*	1610.000	296.00	2403.57	.03	16.26	9983.60	10000.00	10017.70	10023.80	236.83	2404.18	-.00
*	1700.000	296.00	2419.03	.00	15.50	.00	10000.00	10029.40	.00	247.52	2419.58	.00
*	1700.000	296.00	2419.06	.02	15.49	9988.40	10000.00	10029.40	10132.60	233.28	2419.58	.00
*	1750.000	296.00	2428.19	.00	9.15	.00	10000.00	10024.50	.00	236.02	2428.73	.00
*	1750.000	296.00	2428.21	.02	9.15	9987.10	10000.00	10024.50	10039.50	223.02	2428.73	.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=   1360.000  PROFILE=  1  CRITICAL DEPTH ASSUMED

CAUTION SECNO=     70.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     70.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     70.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=    160.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    160.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    260.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    260.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    260.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    260.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    280.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    280.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
[illegible] SECNO=    280.000  PROFILE=  2  WSEL BASED ON X5 CARD
[illegible]NING SECNO=    280.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    290.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    410.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    410.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    410.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    410.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    460.000  PROFILE=  1  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=    460.000  PROFILE=  2  WSEL BASED ON X5 CARD
WARNING SECNO=    460.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    480.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    480.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
[illegible]N SECNO=    570.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=    860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=    960.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    960.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    960.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    960.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1120.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1120.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1120.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1120.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1190.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1190.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1190.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1190.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1300.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1300.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1300.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1300.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1430.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1430.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1430.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1430.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1610.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1610.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   1610.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1610.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1610.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1700.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1700.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1700.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1700.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   1750.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1750.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1750.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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FLOODWAY DATA, OCOTILLO TRIB.3
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
1360.000	334.	191.	1.5	2164.1	2163.3	.8
70.000	89.	61.	4.8	2173.8	2173.8	.0
160.000	54.	77.	3.9	2183.3	2183.3	.0
240.000	55.	71.	4.2	2189.1	2189.1	.0
260.000	46.	52.	5.7	2195.8	2195.8	.0
280.000	85.	784.	.4	2209.2	2209.2	.0
290.000	100.	753.	.4	2209.2	2209.2	.0
410.000	44.	51.	5.8	2213.9	2213.9	.0
450.000	99.	75.	4.0	2220.9	2220.9	.0
460.000	110.	651.	.5	2226.7	2226.7	.0
480.000	70.	211.	1.4	2226.7	2226.7	.0
570.000	33.	47.	6.4	2234.2	2234.2	.0
650.000	38.	46.	6.4	2247.4	2247.4	.0
750.000	31.	45.	6.6	2263.2	2263.2	.0
860.000	47.	54.	5.5	2283.3	2283.2	.1
[illegible]0.000	21.	38.	7.9	2298.3	2298.3	.0
[illegible]70.000	34.	46.	6.5	2313.2	2313.2	.0
1120.000	61.	56.	5.3	2321.7	2321.7	.0
1190.000	60.	48.	6.1	2336.2	2336.2	.0
1300.000	52.	54.	5.4	2352.7	2352.6	.1
1430.000	29.	42.	7.0	2374.3	2374.3	.0
1510.000	42.	50.	5.9	2387.3	2387.3	.0
1610.000	40.	51.	5.8	2403.6	2403.5	.1
1700.000	144.	55.	5.4	2419.1	2419.0	.1
1750.000	52.	56.	5.2	2428.2	2428.2	.0

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*******************************************************
*  WATER SURFACE PROFILES                             *
*  VERSION OF SEPTEMBER 1988                          *
*  ERROR: 01,02,03                                    *
*  UPDATED:  SEPTEMBER 1989                           *
*  RUN DATE    10/ 8/90    TIME    8:35:46            *
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****************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616-4687
*           (916) 756-1104
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OCT4.OUT
9-21-90

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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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END OF BANNER

SB	1.25	1.56	3.00		2.40	.04	7.07		2205.0	2200.8
X1	600				110	110	110		4.2	
X2			1	2208.0	2215.4					
X3	10							2215.4	2215.4	
X5	4	2210.10	2213.22	2215.18	2215.68					
BT	3	9940	2216		10000	2215.4		10100	2215.8	
X1	610	17	9982.7	10021.7	50	50	50			
GR	2216.6	9676.9	2218.4	9737.5	2216.9	9764.5	2217.5	9787.3	2218.8	9817.9
GR	2219.2	9863.8	2217.5	9925.0	2215.3	9960.2	2207.3	9982.7	2205.9	10000.0
GR	2205.3	10008.4	2209.6	10021.7	2211.3	10037.6	2214.8	10053.3	2218.2	10079.4
GR	2218.9	10109.0	2218.7	10133.1						
NC	.05	.05	.04	.1	.3					
X1	680	15	9984.7	10000.0	370	370	370			
GR	2229.9	9776.4	2228.9	9850.0	2227.8	9877.8	2224.2	9906.0	2222.0	9933.5
GR	2219.7	9962.4	2216.1	9984.7	2216.5	9997.3	2216.1	10000.0	2224.2	10027.3
GR	2225.3	10045.9	2226.8	10102.0	2227.3	10161.7	2227.3	10213.0	2226.9	10243.3
NC	.045	.045	.045							
	770	14	9973.9	10019.8	470	470	470			
GR	2241.5	9842.7	2241.3	9936.1	2241.4	9973.9	2232.6	9995.6	2233.2	10000.0
GR	2235.4	10019.8	2235.0	10056.6	2235.9	10079.2	2239.9	10101.3	2239.2	10130.6
GR	2240.2	10138.8	2238.8	10168.2	2237.3	10190.3	2238.6	10215.0		
NC	.045	.045	.025							
X1	860	11	9983.0	10032.0	480	480	480			
GR	2252.3	9767.0	2252.1	9872.8	2250.9	9925.8	2249.9	9958.8	2250.2	9960.0
GR	2249.0	9983.0	2246.7	10000.0	2250.8	10032.0	2254.1	10067.4	2254.9	10111.5
GR	2254.1	10180.0								
NC	.045	.045	.045							
X1	970	8	10000.0	10005.6	580	580	580			
GR	2271.1	9872.7	2271.2	9902.5	2270.4	9956.8	2264.4	10000.0	2264.5	10005.6
GR	2268.2	10032.7	2269.7	10059.1	2269.8	10130.4				

X1	1060	15	9996.1	10000.0	480	480	480			
GR	2284.5	9914.8	2286.1	9953.1	2284.3	9977.5	2279.3	9996.1	2279.3	10000.0
GR	2281.9	10023.7	2284.1	10049.6	2285.9	10083.2	2286.0	10118.5	2286.9	10165.2
GR	2286.9	10236.0	2286.4	10281.5	2286.2	10316.2	2285.7	10338.1	2286.4	10347.9
X1	1160	12	9993.0	10000.0	530	530	530			
GR	2301.9	9859.8	2300.0	9945.0	2297.2	9973.6	2296.3	9993.0	2296.3	10000.0
GR	2297.4	10014.2	2298.8	10023.3	2300.6	10075.3	2299.8	10115.0	2301.2	10167.8
GR	2301.9	10208.9	2301.4	10227.3						
X1	1250	13	9977.6	10025.5	490	470	480			
GR	2319.4	9818.8	2316.8	9864.4	2315.6	9916.3	2315.1	9961.7	2315.3	9977.6
GR	2313.0	10000.0	2315.4	10025.5	2315.3	10055.5	2316.1	10094.8	2317.0	10136.5
GR	2316.9	10168.1	2316.1	10188.6	2314.9	10199.7				

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


*PROF 1

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=          .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000      .93  2123.83      .00  2123.79  2124.08      .25      .00      .00  2127.30
     46.        0.      46.       0.       0.      11.       0.       0.       0. 100000.00
     .00       .00     4.02      .00     .000     .035     .000     .000  2122.90  9982.55
  .019982       0.       0.       0.        0        0        5      .00    20.78 10003.33


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=          .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.57  2145.07  2145.07      .00  2145.45      .39    19.48      .04  2148.50
     46.        0.      46.       0.       0.       9.       0.       0.       0.   2146.20
     .05       .00     4.98      .00     .000     .035     .000     .000  2142.50  9993.76
  .023512     930.     900.     870.        6       15        0      .00    13.51 10007.27


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000      .79  2159.69  2159.69      .00  2159.93      .24    13.58      .01  2161.50
     46.        0.      46.       0.       0.      12.       0.       0.       1.   2159.40
     .09       .00     3.94     1.33     .000     .035     .045     .000  2158.90  9989.10
  .023333     590.     580.     570.        5       17        0      .00    25.41 10014.51


*SECNO 380.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3720 CRITICAL DEPTH ASSUMED
  380.000     1.47  2173.17  2173.17      .00  2173.55      .38    14.15      .04  2171.70
     46.       16.      30.       0.       4.       6.       0.       0.       1.   2174.40
     .12      4.18     5.29      .00     .050     .040     .000     .000  2171.70  9994.67
  .031308     510.     530.     550.       20       17        0      .00    12.93 10007.60
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
 Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
 TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
 SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 480.000
  480.000     1.31  2186.31       .00       .00  2186.55       .23     12.98       .01  2186.80
     46.       0.       46.       0.        0.       12.       0.       1.        1.   2189.90
     .16      .00      3.89       .00      .000      .040      .000     .000  2185.00  9988.33
  .019454     550.     530.      510.        6         0         0      .00     18.03 10006.35


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.52  2197.52  2197.52       .00  2197.90       .38     11.14       .07  2196.00
     46.       8.       38.       0.        2.        7.       0.       1.        1.   2198.10
     .19     3.83      5.16       .00      .050      .040      .000     .000  2196.00  9983.86
  .028278     470.     480.      490.        5         8         0      .00     12.47  9996.33


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

7685 20 TRIALS ATTEMPTED WSEL,CWSEL
7685 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     2.25  2203.05  2203.05       .00  2204.18      1.13      1.11       .37  2200.80
     46.       0.       46.       0.        0.        5.       0.       1.        1.   2200.80
     .19      .00      8.52       .00      .000      .040      .000     .000  2200.80  9997.60
  .017845     50.      50.       50.        20        11         0      .00      2.40 10000.00


SPECIAL BRIDGE
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


5227 DOWNSTREAM ELEV IS    2202.83 , NOT    2203.05 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
    1.25     1.56     3.00     .00      2.40     .04      7.07     .00      2205.00  2200.80

*SECNO 600.000
 WATER EL=X5 CARD=   2210.100

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.91


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000    5.10  2210.10     .00     .00  2210.32     .22     .33     .27  2205.00
     46.      0.     46.      0.      0.     12.      0.      1.      1.   2205.00
     .20     .00    3.76     .00    .000    .040    .000    .000  2205.00  9997.60
 .001165    110.    110.    110.       0       0       0     .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  9.85

  610.000    5.09  2210.39     .00     .00  2210.39     .00     .00     .07  2207.30
     46.      2.     44.      0.     13.    145.      3.      1.      1.   2209.60
     .24     .13     .30     .05    .050    .040    .050    .000  2205.30  9974.02
 .000012     50.     50.     50.       2       0       0     .00    55.02 10029.04


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000     .77  2216.87  2216.87     .00  2217.14     .27     .02     .08  2216.10
     46.      5.     38.      3.      2.      9.      1.      2.      2.   2216.10
     .27    2.71    4.42    2.65    .050    .040    .050    .000  2216.10  9979.94
 .030225    370.    370.    370.      20      20       0     .00    22.64 10002.59


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000    1.38  2233.98  2233.98     .00  2234.32     .34   15.54     .02  2241.40
     46.      0.     46.      0.      0.     10.      0.      2.      2.   2235.40
     .30     .00    4.70     .00    .000    .045    .000    .000  2232.60  9992.21
 .036300    470.    470.    470.       4      17       0     .00    14.78 10006.99
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.17  2247.87  2247.87      .00  2248.17      .30      8.96      .00  2249.00
     46.       0.      46.       0.       0.      10.       0.       2.       2.   2250.80
     .33      .00     4.41      .00     .000     .025     .000     .000  2246.70  9991.34
 .011336     480.     480.     480.        7       15        0      .00    17.81 10009.15


*SECNO 970.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000      .96  2265.36  2265.36      .00  2265.67      .31      9.77      .00  2264.40
     46.       11.      26.       8.       3.       5.       3.       2.       2.   2264.50
     .36     3.35     5.16     3.11     .045     .045     .045     .000  2264.40  9993.07
 .027600     580.     580.     580.        4       15        0      .00    18.85 10011.92


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.03  2280.33  2280.33      .00  2280.66      .33     13.09      .01  2279.30
     46.       7.      22.      17.       2.       4.       5.       2.       2.   2279.30
     .39     3.41     5.54     3.48     .045     .045     .045     .000  2279.30  9992.26
 .026932     480.     480.     480.        5        8        0      .00    17.16 10009.42


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .70  2297.00  2297.00      .00  2297.22      .22     15.06      .01  2296.30
     46.       15.      22.       9.       5.       5.       3.       2.       3.   2296.30
     .43     2.84     4.51     2.83     .045     .045     .045     .000  2296.30  9977.92
 .030029     530.     530.     530.        5       14        0      .00    31.11 10009.03


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.04  2314.04  2314.04      .00  2314.31      .27     16.13      .02  2315.30
     46.       0.      46.       0.       0.      11.       0.       2.       3.   2315.40
     .47      .00     4.15      .00     .000     .045     .000     .000  2313.00  9989.83
 .037733     490.     480.     470.        4       14        0      .00    21.26 10011.09
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T1    FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    50-YR FLOOD FREQUENCY MODEL
T3    OCOTILLO WASH, TRIB. 4    (OCT4.DAT)

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3                           .02                                   2123.95

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      2                 -1
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*PROF 2

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.12  2124.02  2124.01  2123.95  2124.34      .32      .00      .00  2127.30
     71.       0.      71.       0.       0.      16.       0.       0.       0. 100000.00
     .00      .00     4.56      .00     .000     .035     .000     .000  2122.90  9981.46
  .019963       0.       0.       0.        0        8        0      .00    23.30 10004.77


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

7470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.83  2145.33  2145.33      .00  2145.78      .46    18.84      .04  2148.50
     71.       0.      71.       0.       0.      13.       0.       0.       0.   2146.20
     .05      .00     5.41      .00     .000     .035     .000     .000  2142.50  9992.56
  .021967     930.     900.     870.        5       17        0      .00    16.10 10008.66


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000      .96  2159.86  2159.86      .00  2160.16      .30    12.60      .02  2161.50
     71.       0.      70.       1.       0.      16.       0.       0.       1.   2159.40
     .08      .00     4.40     1.74     .000     .035     .045     .000  2158.90  9986.75
  .021476     590.     580.     570.        5       22        0      .00    28.25 10015.00


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     1.75  2173.45  2173.45      .00  2173.90      .45    13.19      .05  2171.70
     71.      25.      46.       0.       6.       8.       0.       1.       1.   2174.40
     .11     4.56     5.78      .00     .050     .040     .000     .000  2171.70  9993.66
  .029594     510.     530.     550.        4       17        0      .00    15.37 10009.03
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 480.000
  480.000     1.54  2186.54      .00      .00  2186.84      .30    12.92      .01  2186.80
     71.       0.     71.       0.       0.      16.       0.       1.       1.   2189.90
     .14      .00     4.39      .00     .000     .040     .000     .000  2185.00  9986.36
  .020191     550.     530.     510.        5        0        0      .00    21.07 10007.42


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.80  2197.80  2197.80      .00  2198.26      .46    11.23      .08  2196.00
     71.       13.     58.       0.       3.      10.       0.       1.       1.   2198.10
     .17     4.22     5.69      .00     .050     .040     .000     .000  2196.00  9983.34
  .027517     470.     480.     490.        5       11        0      .00    14.74  9998.09


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     2.99  2203.79  2203.79      .00  2205.31     1.52     1.04      .53  2200.80
     71.       0.     71.       0.       0.       7.       0.       1.       1.   2200.80
     .17      .00     9.88      .00     .000     .040     .000     .000  2200.80  9997.60
  .016411     50.      50.      50.       20       14        0      .00     2.40 10000.00


SPECIAL BRIDGE
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


5227 DOWNSTREAM ELEV IS    2203.51 , NOT    2203.79 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00      2.40       .04      7.07       .00   2205.00   2200.80

*SECNO 600.000
 WATER EL=X5 CARD=   2213.220

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.39


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000     8.22  2213.22      .00      .00  2213.42      .20      .18      .39  2205.00
     71.       0.      71.       0.       0.      20.       0.       1.       1.   2205.00
     .18      .00     3.60      .00     .000     .040     .000     .000  2205.00  9997.60
  .000565     110.     110.     110.        0        0        0      .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 13.91

  610.000     8.18  2213.48      .00      .00  2213.48      .00      .00      .06  2207.30
     71.       6.      60.       6.      54.     265.      59.       1.       1.   2209.60
     .25      .10      .23      .10     .050     .040     .050     .000  2205.30  9965.32
  .000003     50.      50.      50.        2        0        0      .00    82.07 10047.38


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000      .96  2217.06  2217.06      .00  2217.40      .35      .00      .10  2216.10
     71.       8.      58.       4.       3.      12.       2.       3.       2.   2216.10
     .27     2.94     5.03     2.89     .050     .040     .050     .000  2216.10  9978.78
  .026720     370.     370.     370.       20       20        0      .00    24.45 10003.22


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.64  2234.24  2234.24      .00  2234.63      .40    13.94      .02  2241.40
     71.       0.      71.       0.       0.      14.       0.       3.       2.   2235.40
     .29      .00     5.06      .00     .000     .045     .000     .000  2232.60  9991.56
  .033135     470.     470.     470.        2       14        0      .00    17.78 10009.34
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.39  2248.09  2248.09      .00  2248.45      .36     8.35      .00  2249.00
     71.       0.      71.       0.       0.      15.       0.       3.       2.   2250.80
     .32      .00     4.81      .00     .000     .025     .000     .000  2246.70  9989.69
 .010691     480.     480.     480.        6       15        0      .00    21.19 10010.88


*SECNO 970.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     1.19  2265.59  2265.59      .00  2265.96      .37     9.18      .00  2264.40
     71.      19.      37.      15.       5.       6.       4.       3.       3.   2264.50
     .36     3.72     5.78     3.51     .045     .045     .045     .000  2264.40  9991.44
 .025788     580.     580.     580.        6       15        0      .00    22.13 10013.57


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.28  2280.58  2280.58      .00  2280.96      .39    12.22      .01  2279.30
     71.      12.      31.      29.       3.       5.       7.       4.       3.   2279.30
     .38     3.79     6.17     3.87     .045     .045     .045     .000  2279.30  9991.35
 .025148     480.     480.     480.        4        8        0      .00    20.30 10011.64


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .86  2297.16  2297.16      .00  2297.42      .26    14.30      .01  2296.30
     71.      25.      30.      15.       8.       6.       5.       4.       3.   2296.30
     .42     3.20     5.08     3.19     .045     .045     .045     .000  2296.30  9974.51
 .029024     530.     530.     530.        5       14        0      .00    36.56 10011.07


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.24  2314.24  2314.24      .00  2314.56      .32    15.45      .02  2315.30
     71.       0.      71.       0.       0.      16.       0.       4.       4.   2315.40
     .45      .00     4.53      .00     .000     .045     .000     .000  2313.00  9987.92
 .035788     490.     480.     470.        5       14        0      .00    25.27 10013.18
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T1    FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    100-YR FLOOD FREQUENCY MODEL
T3    OCOTILLO WASH, TRIB. 4    (OCT4.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              4                          .02                                2124.01

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

     3                -1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 3

CCHV=     .100 CEHV=     .300
*SECNO 970.000

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.20  2124.10  2124.09  2124.01  2124.45      .35      .00      .00  2127.30
     83.       0.      83.       0.       0.      17.       0.       0.       0. 100000.00
     .00      .00     4.77      .00     .000     .035     .000     .000  2122.90  9981.02
  .019959      0.       0.       0        0        8        0      .00    24.35 10005.36


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     2.93  2145.43  2145.43      .00  2145.92      .49    18.83      .04  2148.50
     83.       0.      83.       0.       0.      15.       0.       0.       0.   2146.20
     .04      .00     5.63      .00     .000     .035     .000     .000  2142.50  9992.11
  .021956     930.     900.     870.        4       24        0      .00    17.08 10009.19


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000     1.03  2159.93  2159.93      .00  2160.25      .32    12.48      .02  2161.50
     83.       0.      82.       1.       0.      18.       0.       1.       1.   2159.40
     .08      .00     4.59     1.89     .000     .035     .045     .000  2158.90  9985.79
  .021090     590.     580.     570.        6       22        0      .00    29.41 10015.19


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     1.86  2173.56  2173.56      .00  2174.04      .48    12.98      .05  2171.70
     83.      30.      53.       0.       6.       9.       0.       1.       1.   2174.40
     .11     4.72     5.98      .00     .050     .040     .000     .000  2171.70  9993.26
  .029192     510.     530.     550.        4       17        0      .00    16.34 10009.60
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 480.000
  480.000     1.63  2186.63      .00      .00  2186.95      .33    12.90      .02  2186.80
     83.       0.     83.       0.       0.      18.       0.       1.       1.   2189.90
     .14      .00     4.58      .00     .000     .040     .000     .000  2185.00  9985.55
  .020339     550.    530.     510.        6        0        0      .00    22.31 10007.86


CCHV=     .300 CEHV=     .500
*SECNO 570.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  570.000     1.92  2197.92  2197.92      .00  2198.41      .49    11.11      .08  2196.00
     83.       15.     68.       0.       3.      12.       0.       1.       1.   2198.10
     .16     4.34     5.85      .00     .050     .040     .000     .000  2196.00  9983.12
  .026708     470.    480.     490.        4       11        0      .00    15.72  9998.84


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3[illegible] PROBABLE MINIMUM SPECIFIC ENERGY
37[illegible] CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     3.32  2204.12  2204.12      .00  2205.80     1.68     1.01      .60  2200.80
     83.       0.     83.       0.       0.       8.       0.       1.       1.   2200.80
     .16      .00    10.40      .00     .000     .040     .000     .000  2200.80  9997.60
  .015816     50.     50.      50.       20       14        0      .00     2.40 10000.00


SPECIAL BRIDGE
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


5227 DOWNSTREAM ELEV IS    2203.81 , NOT    2204.12 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00      2.40       .04      7.07       .00   2205.00   2200.80

*SECNO 600.000
 WATER EL=X5 CARD=   2215.180

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.46


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

  600.000    10.18  2215.18      .00      .00  2215.36      .18      .13      .45  2205.00
     83.       0.      83.       0.       0.      24.       0.       1.       1.   2205.00
     .17      .00     3.40      .00     .000     .040     .000     .000  2205.00  9997.60
  .000379     110.     110.     110.        0        0        0      .00     2.40 10000.00


*SECNO 610.000

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 16.08

  610.000    10.11  2215.41      .00      .00  2215.41      .00      .00      .05  2207.30
     83.       8.      64.      11.      93.     341.     117.       2.       2.   2209.60
     .26      .09      .19      .09     .050     .040     .050     .000  2205.30  9958.40
  .000001     50.      50.      50.        2        0        0      .00    99.60 10058.00


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000     1.04  2217.14  2217.14      .00  2217.51      .38      .00      .11  2216.10
     83.       10.      67.       5.       3.      13.       2.       4.       2.   2216.10
     .28     3.04     5.27     2.98     .050     .040     .050     .000  2216.10  9978.28
  .025558    370.     370.     370.       20       24        0      .00    25.22 10003.50


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.74  2234.34  2234.34      .00  2234.76      .42    13.51      .01  2241.40
     83.       0.      83.       0.       0.      16.       0.       4.       2.   2235.40
     .30      .00     5.22      .00     .000     .045     .000     .000  2232.60  9991.31
  .032588    470.     470.     470.        3       14        0      .00    18.94 10010.25
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 SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS    BANK ELEV
   Q       QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA    LEFT/RIGHT
  TIME     VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN       SSTA
  SLOPE    XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID      ENDST


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.48  2248.18  2248.18      .00  2248.57      .38      8.19      .00  2249.00
     83.       0.      83.       0.       0.       17.       0.       4.       3.   2250.80
     .33      .00     4.96      .00     .000      .025     .000     .000  2246.70  9989.03
  .010472     480.     480.     480.        5       15        0      .00    22.56 10011.58


*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     1.28  2265.68  2265.68      .00  2266.07      .39      8.97      .00  2264.40
     83.       23.      41.      19.       6.        7.       5.       5.       3.   2264.50
     .36      3.86     6.01     3.66     .045      .045     .045     .000  2264.40  9990.77
  .025102     580.     580.     580.       20       15        0      .00    23.48 10014.25


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     1.37  2280.67  2280.67      .00  2281.09      .41     11.97      .01  2279.30
     83.       14.      34.      35.       4.        5.       9.       5.       3.   2279.30
     .39      3.95     6.42     4.03     .045      .045     .045     .000  2279.30  9990.99
  .024756     480.     480.     480.        4        8        0      .00    21.54 10012.53


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1160.000      .94  2297.24  2297.24      .00  2297.50      .26     13.50      .01  2296.30
     83.       31.      34.      18.       9.        7.       6.       5.       3.   2296.30
     .43      3.30     5.12     3.22     .045      .045     .045     .000  2296.30  9973.22
  .026200     530.     530.     530.        5       14        0      .00    38.87 10012.09


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.32  2314.32  2314.32      .00  2314.66      .34     14.50      .02  2315.30
     83.        0.      83.       0.       0.       18.       0.       5.       4.   2315.40
     .45      .00     4.68      .00     .000      .045     .000     .000  2313.00  9987.14
  .035107     490.     480.     470.        4       14        0      .00    26.89 10014.03
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T1    FLOOD CONTROL DISTRICT OF MARICOPA COUNTY - LA027815.H2
T2    500-YR FLOOD FREQUENCY MODEL
T3    OCOTILLO WASH, TRIB. 4    (OCT4.DAT)

J1  ICHECK    INQ      NINV     IDIR     STRT     METRIC   HVINS    Q        WSEL     FQ

              5                          .02                                2124.12

J2  NPROF     IPLOT    PRFVS    XSECV    XSECH    FN       ALLDC    IBW      CHNIM    ITRACE

    15                 -1
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   CNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q       QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 4

CCHV=     .100 CEHV=     .300
*SECNO 970.000
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=         .0   10080.7  TYPE=      1  TARGET=    10080.700
       ********REVISED STREAMFLOWS FROM CVCRK43R.OUT*****************
         COMMON SECTION IS 970 FROM OCOTILLO WASH (HTA)
         SECTION 000 = 970 OCOTILLO WASH (HTA)
         FLOWS ARE TAKEN AS 0.07 * Q(G3); IN PROPORTION TO AREA OF OCT4.
         STARTING W.S. ELEV. IS ASSUMED AT NORMAL FLOW
  970.000     1.33  2124.23  2124.23  2124.12  2124.63      .40      .00      .00  2127.30
     105.       0.     105.       0.       0.      21.       0.       0.       0. 100000.00
      .00      .00     5.08      .00     .000     .035     .000     .000  2122.90  9980.26
  .019728       0.       0.       0.        0        8        0      .00    26.10 10006.36


*SECNO 170.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3 ENCROACHMENT STATIONS=         .0   10231.0  TYPE=      1  TARGET=    10231.000
  170.000     3.12  2145.62  2145.62      .00  2146.14      .52    17.91      .03  2148.50
     105.       0.     105.       0.       0.      18.       0.       0.       0.   2146.20
      .04      .00     5.77      .00     .000     .035     .000     .000  2142.50  9991.24
  .020070     930.     900.     870.        3       29        0      .00    18.97 10010.21


*SECNO 280.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  280.000     1.15  2160.05  2160.05      .00  2160.41      .36    11.64      .02  2161.50
     105.       0.     104.       1.       0.      21.       1.       1.       1.   2159.40
      .08      .00     4.84     2.12     .000     .035     .045     .000  2158.90  9984.11
  .020073     590.     580.     570.        4       22        0      .00    31.42 10015.53


*SECNO 380.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  380.000     2.05  2173.75  2173.75      .00  2174.27      .53    12.43      .05  2171.70
     105.      37.      68.       0.       8.      11.       0.       1.       1.   2174.40
      .10     4.94     6.25      .00     .050     .040     .000     .000  2171.70  9992.59
  .028143     510.     530.     550.        5       17        0      .00    17.97 10010.56
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 480.000
  480.000     1.76  2186.76      .00      .00  2187.13      .37    12.85      .02  2186.80
     105.       0.     105.       0.       0.      21.       0.       1.       1.   2189.90
      .13      .00     4.90      .00     .000     .040     .000     .000  2185.00  9984.29
  .020834     550.     530.     510.        4        0        0      .00    24.25 10008.55


CCHV=     .300 CEHV=     .500
*SECNO 570.000
  570.000     2.08  2198.08  2198.07      .00  2198.64      .56    11.41      .09  2196.00
     105.      19.      86.       0.       4.      14.       0.       1.       2.   2198.10
      .15     4.66     6.28      .00     .050     .040     .000     .000  2196.00  9982.81
  .027511     470.     480.     490.        8       11        0      .00    17.08  9999.89


*SECNO 580.000

3301 HV CHANGED MORE THAN HVINS

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

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      2215.40 ELREA=      2215.40

         1-36" CMP CULVERT AT SCHOOL HOUSE ROAD.  INVERT AND TOP OF ROAD
         ELEV. ARE ESTIMATED FROM 200 SCALE TOPO AND PHOTOS.  SPECIAL BRIDGE
         METHOD IS USED BY INSERTING A THIN PIER.
  580.000     3.89  2204.69  2204.69      .00  2206.65     1.96      .99      .70  2200.80
     105.       0.     105.       0.       0.       9.       0.       1.       2.   2200.80
      .16      .00    11.24      .00     .000     .040     .000     .000  2200.80  9997.60
  .014935      50.      50.      50.       20       14        0      .00     2.40 10000.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    2204.32 , NOT    2204.69 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00      2.40       .04      7.07       .00   2205.00   2200.80

*SECNO 600.000
 WATER EL=X5 CARD=   2215.680
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q      QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO = 80.83

  600.000    10.68  2215.68      .00      .00  2215.68      .00      .00      .59  2205.00
     105.      45.       7.      53.     330.      26.     356.       2.       2.   2205.00
      .36      .14      .27      .15     .050     .040     .050     .000  2205.00  9790.99
  .000002     110.     110.     110.        0        0        0      .00   164.66 10067.92


*SECNO 610.000
  610.000    10.38  2215.68      .00      .00  2215.68      .00      .00      .00  2207.30
     105.      11.      80.      14.     100.     351.     127.       3.       2.   2209.60
      .43      .11      .23      .11     .050     .040     .050     .000  2205.30  9954.13
  .000002      50.      50.      50.        2        0        0      .00   105.93 10060.05


CCHV=     .100 CEHV=     .300
*SECNO 680.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3[illegible]ROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  680.000     1.17  2217.27  2217.27      .00  2217.70      .43      .00      .13  2216.10
     105.      14.      84.       7.       4.      15.       2.       6.       3.   2216.10
      .45     3.21     5.66     3.15     .050     .040     .050     .000  2216.10  9977.44
  .024184     370.     370.     370.       20       20        0      .00    26.50 10003.95


*SECNO 770.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  770.000     1.90  2234.50  2234.50      .00  2234.97      .47    13.01      .01  2241.40
     105.       0.     105.       0.       0.      19.       0.       6.       3.   2235.40
      .47      .00     5.50      .00     .000     .045     .000     .000  2232.60  9990.92
  .032008     470.     470.     470.        4       14        0      .00    20.79 10011.70


*SECNO 860.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  860.000     1.63  2248.33  2248.33      .00  2248.75      .42     7.99      .00  2249.00
     105.       0.     105.       0.       0.      20.       0.       6.       3.   2250.80
      .50      .00     5.20      .00     .000     .025     .000     .000  2246.70  9987.95
  .010178     480.     480.     480.        6       15        0      .00    24.77 10012.72
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 970.000
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
  970.000     1.43  2265.83  2265.83      .00  2266.26      .43     8.72      .00  2264.40
     105.      30.      49.      25.       7.       8.       6.       6.       3.   2264.50
      .53     4.10     6.40     3.91     .045     .045     .045     .000  2264.40  9989.70
  .024448     580.     580.     580.       20       15        0      .00    25.64 10015.34


*SECNO 1060.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1060.000     1.53  2280.83  2280.83      .00  2281.29      .45    11.63      .01  2279.30
     105.      18.      41.      46.       4.       6.      11.       7.       4.   2279.30
      .55     4.19     6.81     4.27     .045     .045     .045     .000  2279.30  9990.39
  .024009     480.     480.     480.        4        8        0      .00    23.60 10013.99


*SECNO 1160.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .000     1.03  2297.33  2297.33      .00  2297.63      .30    13.40      .01  2296.30
     105.      42.      40.      24.      11.       7.       7.       7.       4.   2296.30
      .59     3.71     5.49     3.45     .045     .045     .045     .000  2296.30  9972.29
  .026646     530.     530.     530.        5       14        0      .00    40.98 10013.27


*SECNO 1250.000
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
 1250.000     1.45  2314.45  2314.45      .00  2314.82      .37    14.41      .02  2315.30
     105.       0.     105.       0.       0.      21.       0.       7.       4.   2315.40
      .61      .00     4.90      .00     .000     .045     .000     .000  2313.00  9985.87
  .033943     490.     480.     470.        4       14        0      .00    29.55 10015.42
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THIS RUN EXECUTED 10/ 8/90 8:36:22

****
HEC2 RELEASE DATED SEP 88 UPDATED SEPT 1989

ERROR CORR - 01,02,03
MODIFICATION -
****

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

COTILLO WASH, TRIB. 4

SUMMARY PRINTOUT

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
	970.000	2123.83	46.00	.93	.00	4.02	.00	.00	46.00	.00	20.78	199.82	.00
	970.000	2124.02	71.00	1.12	.00	4.56	.00	.00	71.00	.00	23.30	199.63	.00
	970.000	2124.10	83.00	1.20	.00	4.77	.00	.00	83.00	.00	24.35	199.59	.00
*	970.000	2124.23	105.00	1.33	.00	5.08	.00	.00	105.00	.00	26.10	197.28	.00
*	170.000	2145.07	46.00	2.57	.00	4.98	.00	.00	46.00	.00	13.51	235.12	21.23
	170.000	2145.33	71.00	2.83	.00	5.41	.00	.00	71.00	.00	16.10	219.67	21.31
*	170.000	2145.43	83.00	2.93	.00	5.63	.00	.00	83.00	.00	17.08	219.56	21.33
*	170.000	2145.62	105.00	3.12	.00	5.77	.00	.00	105.00	.00	18.97	200.70	21.39
*	280.000	2159.69	46.00	.79	.00	3.94	1.33	.00	45.84	.16	25.41	233.33	14.62
*	280.000	2159.86	71.00	.96	.00	4.40	1.74	.00	70.48	.52	28.25	214.76	14.53
*	280.000	2159.93	83.00	1.03	.00	4.59	1.89	.00	82.25	.74	29.41	210.90	14.50
*	280.000	2160.05	105.00	1.15	.00	4.84	2.12	.00	103.74	1.26	31.42	200.73	14.43
*	380.000	2173.17	46.00	1.47	4.18	5.29	.00	16.41	29.59	.00	12.93	313.08	13.48
*	380.000	2173.45	71.00	1.75	4.56	5.78	.00	25.33	45.67	.00	15.37	295.94	13.59
*	380.000	2173.56	83.00	1.86	4.72	5.98	.00	29.61	53.39	.00	16.34	291.92	13.63
*	380.000	2173.75	105.00	2.05	4.94	6.25	.00	37.46	67.54	.00	17.97	281.43	13.70
	480.000	2186.31	46.00	1.31	.00	3.89	.00	.00	46.00	.00	18.03	194.54	13.14
	480.000	2186.54	71.00	1.54	.00	4.39	.00	.00	71.00	.00	21.07	201.91	13.09
	480.000	2186.63	83.00	1.63	.00	4.58	.00	.00	83.00	.00	22.31	203.39	13.07
	480.000	2186.76	105.00	1.76	.00	4.90	.00	.00	105.00	.00	24.25	208.34	13.01
*	570.000	2197.52	46.00	1.52	3.83	5.16	.00	8.26	37.74	.00	12.47	282.78	11.21
*	570.000	2197.80	71.00	1.80	4.22	5.69	.00	12.74	58.25	.00	14.74	275.17	11.26
*	570.000	2197.92	83.00	1.92	4.34	5.85	.00	14.90	68.10	.00	15.72	267.08	11.29
	570.000	2198.08	105.00	2.08	4.66	6.28	.00	18.85	86.15	.00	17.08	275.11	11.32
*	580.000	2203.05	46.00	2.25	.00	8.52	.00	.00	46.00	.00	2.40	178.45	5.53
*	580.000	2203.79	71.00	2.99	.00	9.88	.00	.00	71.00	.00	2.40	164.11	6.00
*	580.000	2204.12	83.00	3.32	.00	10.40	.00	.00	83.00	.00	2.40	158.16	6.21
*	580.000	2204.69	105.00	3.89	.00	11.24	.00	.00	105.00	.00	2.40	149.35	6.61

	SECNO	CWSEL	Q	DEPTH	VLOB	VCH	VROB	QLOB	QCH	QROB	TOPWID	10*KS	DIFWSX
*	600.000	2210.10	46.00	5.10	.00	3.76	.00	.00	46.00	.00	2.40	11.65	7.05
*	600.000	2213.22	71.00	8.22	.00	3.60	.00	.00	71.00	.00	2.40	5.65	9.43
*	600.000	2215.18	83.00	10.18	.00	3.40	.00	.00	83.00	.00	2.40	3.79	11.06
*	600.000	2215.68	105.00	10.68	.14	.27	.15	44.66	6.98	53.35	164.66	.02	10.99
*	610.000	2210.39	46.00	5.09	.13	.30	.05	1.77	44.07	.16	55.02	.12	.29
*	610.000	2213.48	71.00	8.18	.10	.23	.10	5.56	59.76	5.67	82.07	.03	.26
*	610.000	2215.41	83.00	10.11	.09	.19	.09	8.21	64.20	10.58	99.60	.01	.23
	610.000	2215.68	105.00	10.38	.11	.23	.11	10.84	80.12	14.04	105.93	.02	.00
*	680.000	2216.87	46.00	.77	2.71	4.42	2.65	4.94	38.42	2.64	22.64	302.25	6.48
*	680.000	2217.06	71.00	.96	2.94	5.03	2.89	8.34	58.21	4.45	24.45	267.20	3.58
*	680.000	2217.14	83.00	1.04	3.04	5.27	2.98	10.13	67.46	5.40	25.22	255.58	1.72
*	680.000	2217.27	105.00	1.17	3.21	5.66	3.15	13.63	84.09	7.27	26.50	241.84	1.59
*	770.000	2233.98	46.00	1.38	.00	4.70	.00	.00	46.00	.00	14.78	363.00	17.11
*	770.000	2234.24	71.00	1.64	.00	5.06	.00	.00	71.00	.00	17.78	331.35	17.18
*	770.000	2234.34	83.00	1.74	.00	5.22	.00	.00	83.00	.00	18.94	325.88	17.20
*	770.000	2234.50	105.00	1.90	.00	5.50	.00	.00	105.00	.00	20.79	320.08	17.23
*	860.000	2247.87	46.00	1.17	.00	4.41	.00	.00	46.00	.00	17.81	113.36	13.90
*	860.000	2248.09	71.00	1.39	.00	4.81	.00	.00	71.00	.00	21.19	106.91	13.86
*	860.000	2248.18	83.00	1.48	.00	4.96	.00	.00	83.00	.00	22.56	104.72	13.85
*	860.000	2248.33	105.00	1.63	.00	5.20	.00	.00	105.00	.00	24.77	101.78	13.83
*	970.000	2265.36	46.00	.96	3.35	5.16	3.11	11.16	26.36	8.47	18.85	276.00	17.49
*	970.000	2265.59	71.00	1.19	3.72	5.78	3.51	18.93	36.84	15.23	22.13	257.88	17.49
*	970.000	2265.68	83.00	1.28	3.86	6.01	3.66	22.84	41.44	18.71	23.48	251.02	17.50
*	970.000	2265.83	105.00	1.43	4.10	6.40	3.91	30.21	49.46	25.33	25.64	244.48	17.50
*	1060.000	2280.33	46.00	1.03	3.41	5.54	3.48	6.77	22.32	16.91	17.16	269.32	14.97
*	1060.000	2280.58	71.00	1.28	3.79	6.17	3.87	11.52	30.72	28.77	20.30	251.48	14.99
*	1060.000	2280.67	83.00	1.37	3.95	6.42	4.03	13.89	34.43	34.69	21.54	247.56	14.99
*	1060.000	2280.83	105.00	1.53	4.19	6.81	4.27	18.36	40.76	45.87	23.60	240.09	15.00
*	1160.000	2297.00	46.00	.70	2.84	4.51	2.83	14.97	22.08	8.95	31.11	300.29	16.67
*	1160.000	2297.16	71.00	.86	3.20	5.08	3.19	25.35	30.49	15.16	36.56	290.24	16.58
*	1160.000	2297.24	83.00	.94	3.30	5.12	3.22	31.22	33.56	18.23	38.87	262.00	16.56
*	1160.000	2297.33	105.00	1.03	3.71	5.49	3.45	41.93	39.51	23.55	40.98	266.46	16.49
*	1250.000	2314.04	46.00	1.04	.00	4.15	.00	.00	46.00	.00	21.26	377.33	17.04
*	1250.000	2314.24	71.00	1.24	.00	4.53	.00	.00	71.00	.00	25.27	357.88	17.08
*	1250.000	2314.32	83.00	1.32	.00	4.68	.00	.00	83.00	.00	26.89	351.07	17.08
*	1250.000	2314.45	105.00	1.45	.00	4.90	.00	.00	105.00	.00	29.55	339.43	17.12

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10*KS	VCH	AREA	.01K
*	680.000	370.00	.00	.00	2216.10	46.00	2216.87	2216.87	2217.14	302.25	4.42	11.51	2.65
*	680.000	370.00	.00	.00	2216.10	71.00	2217.06	2217.06	2217.40	267.20	5.03	15.94	4.34
*	680.000	370.00	.00	.00	2216.10	83.00	2217.14	2217.14	2217.51	255.58	5.27	17.95	5.19
*	680.000	370.00	.00	.00	2216.10	105.00	2217.27	2217.27	2217.70	241.84	5.66	21.42	6.75
*	770.000	470.00	.00	.00	2232.60	46.00	2233.98	2233.98	2234.32	363.00	4.70	9.78	2.41
*	770.000	470.00	.00	.00	2232.60	71.00	2234.24	2234.24	2234.63	331.35	5.06	14.04	3.90
*	770.000	470.00	.00	.00	2232.60	83.00	2234.34	2234.34	2234.76	325.88	5.22	15.89	4.60
*	770.000	470.00	.00	.00	2232.60	105.00	2234.50	2234.50	2234.97	320.08	5.50	19.10	5.87
*	860.000	480.00	.00	.00	2246.70	46.00	2247.87	2247.87	2248.17	113.36	4.41	10.44	4.32
*	860.000	480.00	.00	.00	2246.70	71.00	2248.09	2248.09	2248.45	106.91	4.81	14.78	6.87
*	860.000	480.00	.00	.00	2246.70	83.00	2248.18	2248.18	2248.57	104.72	4.96	16.74	8.11
*	860.000	480.00	.00	.00	2246.70	105.00	2248.33	2248.33	2248.75	101.78	5.20	20.18	10.41
*	970.000	580.00	.00	.00	2264.40	46.00	2265.36	2265.36	2265.67	276.00	5.16	11.17	2.77
*	970.000	580.00	.00	.00	2264.40	71.00	2265.59	2265.59	2265.96	257.88	5.78	15.79	4.42
*	970.000	580.00	.00	.00	2264.40	83.00	2265.68	2265.68	2266.07	251.02	6.01	17.92	5.24
*	970.000	580.00	.00	.00	2264.40	105.00	2265.83	2265.83	2266.26	244.48	6.40	21.57	6.72
*	1060.000	480.00	.00	.00	2279.30	46.00	2280.33	2280.33	2280.66	269.32	5.54	10.88	2.80
*	1060.000	480.00	.00	.00	2279.30	71.00	2280.58	2280.58	2280.96	251.48	6.17	15.45	4.48
*	1060.000	480.00	.00	.00	2279.30	83.00	2280.67	2280.67	2281.09	247.56	6.42	17.48	5.28
*	1060.000	480.00	.00	.00	2279.30	105.00	2280.83	2280.83	2281.29	240.09	6.81	21.11	6.78
*	1160.000	530.00	.00	.00	2296.30	46.00	2297.00	2297.00	2297.22	300.29	4.51	13.33	2.65
*	1160.000	530.00	.00	.00	2296.30	71.00	2297.16	2297.16	2297.42	290.24	5.08	18.68	4.17
*	1160.000	530.00	.00	.00	2296.30	83.00	2297.24	2297.24	2297.50	262.00	5.12	21.67	5.13
*	1160.000	530.00	.00	.00	2296.30	105.00	2297.33	2297.33	2297.63	266.46	5.49	25.32	6.43
*	1250.000	480.00	.00	.00	2313.00	46.00	2314.04	2314.04	2314.31	377.33	4.15	11.10	2.37
*	1250.000	480.00	.00	.00	2313.00	71.00	2314.24	2314.24	2314.56	357.88	4.53	15.68	3.75
*	1250.000	480.00	.00	.00	2313.00	83.00	2314.32	2314.32	2314.66	351.07	4.68	17.75	4.43
*	1250.000	480.00	.00	.00	2313.00	105.00	2314.45	2314.45	2314.82	339.43	4.90	21.44	5.70

LO WASH, TRIB. 4

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	970.000	46.00	2123.83	.00	.00	.04	20.78	.00
	970.000	71.00	2124.02	.19	.00	.07	23.30	.00
	970.000	83.00	2124.10	.08	.00	.09	24.35	.00
*	970.000	105.00	2124.23	.13	.00	.11	26.10	.00
*	170.000	46.00	2145.07	.00	21.23	.00	13.51	900.00
*	170.000	71.00	2145.33	.26	21.31	.00	16.10	900.00
*	170.000	83.00	2145.43	.10	21.33	.00	17.08	900.00
*	170.000	105.00	2145.62	.19	21.39	.00	18.97	900.00
*	280.000	46.00	2159.69	.00	14.62	.00	25.41	580.00
*	280.000	71.00	2159.86	.17	14.53	.00	28.25	580.00
*	280.000	83.00	2159.93	.07	14.50	.00	29.41	580.00
*	280.000	105.00	2160.05	.12	14.43	.00	31.42	580.00
*	380.000	46.00	2173.17	.00	13.48	.00	12.93	530.00
*	380.000	71.00	2173.45	.28	13.59	.00	15.37	530.00
*	380.000	83.00	2173.56	.11	13.63	.00	16.34	530.00
*	380.000	105.00	2173.75	.19	13.70	.00	17.97	530.00
	480.000	46.00	2186.31	.00	13.14	.00	18.03	530.00
	480.000	71.00	2186.54	.23	13.09	.00	21.07	530.00
	480.000	83.00	2186.63	.09	13.07	.00	22.31	530.00
	480.000	105.00	2186.76	.13	13.01	.00	24.25	530.00
*	570.000	46.00	2197.52	.00	11.21	.00	12.47	480.00
*	570.000	71.00	2197.80	.28	11.26	.00	14.74	480.00
*	570.000	83.00	2197.92	.12	11.29	.00	15.72	480.00
	570.000	105.00	2198.08	.16	11.32	.00	17.08	480.00
*	580.000	46.00	2203.05	.00	5.53	.00	2.40	50.00
*	580.000	71.00	2203.79	.74	6.00	.00	2.40	50.00
*	580.000	83.00	2204.12	.33	6.21	.00	2.40	50.00
*	580.000	105.00	2204.69	.57	6.61	.00	2.40	50.00
*	600.000	46.00	2210.10	.00	7.05	.00	2.40	110.00
*	600.000	71.00	2213.22	3.12	9.43	.00	2.40	110.00
*	600.000	83.00	2215.18	1.96	11.06	.00	2.40	110.00
*	600.000	105.00	2215.68	.50	10.99	.00	164.66	110.00
*	610.000	46.00	2210.39	.00	.29	.00	55.02	50.00
*	610.000	71.00	2213.48	3.10	.26	.00	82.07	50.00
*	610.000	83.00	2215.41	1.93	.23	.00	99.60	50.00
	610.000	105.00	2215.68	.27	.00	.00	105.93	50.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	680.000	46.00	2216.87	.00	6.48	.00	22.64	370.00
*	680.000	71.00	2217.06	.19	3.58	.00	24.45	370.00
*	680.000	83.00	2217.14	.08	1.72	.00	25.22	370.00
*	680.000	105.00	2217.27	.13	1.59	.00	26.50	370.00
*	770.000	46.00	2233.98	.00	17.11	.00	14.78	470.00
*	770.000	71.00	2234.24	.26	17.18	.00	17.78	470.00
*	770.000	83.00	2234.34	.10	17.20	.00	18.94	470.00
*	770.000	105.00	2234.50	.16	17.23	.00	20.79	470.00
*	860.000	46.00	2247.87	.00	13.90	.00	17.81	480.00
*	860.000	71.00	2248.09	.22	13.86	.00	21.19	480.00
*	860.000	83.00	2248.18	.09	13.85	.00	22.56	480.00
*	860.000	105.00	2248.33	.15	13.83	.00	24.77	480.00
*	970.000	46.00	2265.36	.00	17.49	.00	18.85	580.00
*	970.000	71.00	2265.59	.23	17.49	.00	22.13	580.00
*	970.000	83.00	2265.68	.09	17.50	.00	23.48	580.00
*	970.000	105.00	2265.83	.15	17.50	.00	25.64	580.00
*	1060.000	46.00	2280.33	.00	14.97	.00	17.16	480.00
*	1060.000	71.00	2280.58	.24	14.99	.00	20.30	480.00
*	1060.000	83.00	2280.67	.10	14.99	.00	21.54	480.00
*	1060.000	105.00	2280.83	.16	15.00	.00	23.60	480.00
*	1160.000	46.00	2297.00	.00	16.67	.00	31.11	530.00
*	1160.000	71.00	2297.16	.16	16.58	.00	36.56	530.00
*	1160.000	83.00	2297.24	.08	16.56	.00	38.87	530.00
*	1160.000	105.00	2297.33	.09	16.49	.00	40.98	530.00
*	1250.000	46.00	2314.04	.00	17.04	.00	21.26	480.00
*	1250.000	71.00	2314.24	.20	17.08	.00	25.27	480.00
*	1250.000	83.00	2314.32	.08	17.08	.00	26.89	480.00
*	1250.000	105.00	2314.45	.13	17.12	.00	29.55	480.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION SECNO=    970.000  PROFILE=  4  CRITICAL DEPTH ASSUMED

CAUTION SECNO=    170.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    170.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    170.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    280.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    280.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    280.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    380.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    380.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    380.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    380.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    380.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    570.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    570.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    570.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=    580.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=    580.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=    580.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    580.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

NOTE    SECNO=    600.000  PROFILE=  1  WSEL BASED ON X5 CARD
CAUTION SECNO=    600.000  PROFILE=  1  HYDRAULIC JUMP D.S.
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WARNING SECNO=   600.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=   600.000  PROFILE=  2  WSEL BASED ON X5 CARD
CAUTION SECNO=   600.000  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=   600.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=   600.000  PROFILE=  3  WSEL BASED ON X5 CARD
CAUTION SECNO=   600.000  PROFILE=  3  HYDRAULIC JUMP D.S.
WARNING SECNO=   600.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
NOTE    SECNO=   600.000  PROFILE=  4  WSEL BASED ON X5 CARD
CAUTION SECNO=   600.000  PROFILE=  4  HYDRAULIC JUMP D.S.
WARNING SECNO=   600.000  PROFILE=  4  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=   610.000  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=   610.000  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=   610.000  PROFILE=  3  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=   680.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   680.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   680.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   680.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=   770.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   770.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   770.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   770.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   770.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   860.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   860.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   860.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=   970.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   970.000  PROFILE=  3  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   970.000  PROFILE=  3  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=   970.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=    970.000  PROFILE=  4  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=    970.000  PROFILE=  4  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=   1060.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1060.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1060.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1160.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=   1160.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1160.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1250.000  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  1  MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=   1250.000  PROFILE=  2  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  3  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  3  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=   1250.000  PROFILE=  4  CRITICAL DEPTH ASSUMED
CAUTION SECNO=   1250.000  PROFILE=  4  MINIMUM SPECIFIC ENERGY
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