

FLOODWAY DATA, 100YR FLWY PROFILE AUG
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
21990.000	50.	272.	5.1	394.2	393.2	1.0
22000.000	50.	262.	5.3	394.2	393.2	1.0
22010.000	50.	253.	5.5	394.3	393.3	1.0
22020.000	50.	243.	5.8	394.4	393.3	1.1
22040.000	50.	226.	6.2	394.5	393.4	1.1
22100.000	65.	202.	5.0	395.4	394.8	0.6
22125.000	65.	256.	5.5	395.6	394.9	0.7
22200.000	100.	353.	4.0	396.9	396.2	0.7
22212.000	100.	333.	4.2	397.0	396.4	0.6
22225.000	100.	317.	4.4	397.1	396.6	0.5
22300.000	131.	360.	3.9	398.5	398.5	0.0
22410.000	131.	358.	1.3	399.8	399.8	0.0
22470.000	16.	47.	9.8	424.2	424.2	0.0
22535.000	24.	70.	6.7	427.1	427.1	0.0
22565.000	25.	77.	6.0	427.9	427.1	0.8
22580.000	30.	61.	7.6	431.5	431.5	0.0
22600.000	48.	85.	5.5	432.6	432.5	0.1
22720.000	680.	941.	1.3	434.5	434.5	0.0
22840.000	642.	5923.	0.2	434.6	434.6	0.0
22950.000	409.	3182.	0.4	434.6	434.6	0.0
23130.000	251.	1407.	0.9	434.6	434.6	0.0
23280.000	160.	630.	1.8	434.7	434.7	0.0
23500.000	130.	380.	3.3	435.7	435.7	0.0
23750.000	150.	421.	2.9	438.9	438.8	0.1
24000.000	157.	407.	3.0	441.9	441.9	0.0
24250.000	158.	418.	3.0	445.0	445.0	0.0
24500.000	158.	414.	3.0	447.9	447.9	0.0
24790.000	50.	145.	5.6	451.5	451.4	0.1
24825.000	50.	133.	5.5	452.1	451.9	0.2
24850.000	50.	128.	5.7	452.6	452.4	0.2
24875.000	50.	126.	5.8	453.2	453.0	0.2
24900.000	50.	125.	5.8	453.8	453.6	0.2
25000.000	50.	126.	5.8	456.2	456.0	0.2
25125.000	50.	126.	5.8	459.2	459.0	0.2
25250.000	50.	126.	5.8	462.2	462.0	0.2
25400.000	50.	125.	5.8	465.2	465.6	0.2
25450.000	50.	126.	5.8	467.0	466.8	0.2
25500.000	50.	126.	5.8	468.1	468.0	0.1
25550.000	50.	125.	5.8	469.4	469.2	0.2
25605.000	15.	63.	11.7	472.4	472.4	0.0
25655.000	17.	122.	6.0	476.0	476.0	0.0
25700.000	57.	356.	2.0	476.8	476.1	0.7
25770.000	50.	263.	2.8	476.9	476.2	0.7

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

STOP

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*****JOBCTRL ER 364 : LIST/DISPLAY AREA UNDEFINED.

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*****JOBCTRL ER 364 : LIST/DISPLAY AREA UNDEFINED.

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*****JOBCTRL ER 364 : LIST/DISPLAY AREA UNDEFINED.

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*****JOBCTRL ER 364 : LIST/DISPLAY AREA UNDEFINED.

EOF..

SE0J (SUPPLIED BY COURTESY OF HARRIS)

*****JOB EXITED ON 5 DEC 78 13:52:24 *****

*****CPU TIME= 0MINS 25.21SECS *****

*****CONNECT TIME= 1MINS 37SECS *****

21 Dec 78
 21
 71A copy

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

C
 11 ORANGE COUNTY FIA STUDY
 12 BOLLIN CREEK
 13 100YR FLOW PROFILE AUG 78 CWF

J1	ICHECK	ING	NINV	IDIR	SIRT	METRIC	HVINS	G	RSEL	EG
	0.	4.	0.5.	0.	0.000000	0.00	0.0	0.	432.200	0.000
J2	RPROF	IPLUT	PRFVS	ASECV	XSECH	FN	ALDC	IRW	CRIB	IRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000
J5	VARIABLE CODES FOR SUMMARY PRINTOUT									
	58.000	1.000	3.000	41.000	42.000	5.000	43.000	0.000	58.000	1.000
	55.000	21.000	22.000	54.000	4.000	0.000	200.000	0.000	0.000	0.000
KL	0.120	0.120	0.050	0.100	0.300	0.000	0.000	0.000	0.000	0.000
GI	5.000	1010.000	2970.000	3700.000	6400.000	3700.000	0.000	0.000	0.000	0.000
LI	0.000	0.000	0.000	0.000	0.000	7.100	796.000	1110.000	0.000	0.000

ERI-AA SCS VALLEY SECTION

X1	27020.000	13.000	1000.000	1020.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	439.500	557.000	434.500	607.000	428.700	707.000	428.300	607.000	428.200	507.000
GR	427.300	1000.000	424.500	1004.000	423.600	1009.000	424.600	1018.000	428.600	1020.000
GR	428.700	1107.000	431.000	1207.000	439.500	1307.000	0.000	0.000	0.000	0.000
LI	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000
X1	28000.000	0.000	0.000	0.000	380.000	380.000	380.000	0.000	0.700	0.000
LI	0.000	0.000	0.000	0.000	0.000	7.100	904.000	1021.000	0.000	0.000
X1	28850.000	11.000	1000.000	1020.000	850.000	850.000	850.000	0.000	0.000	0.000
GR	450.000	790.000	440.000	865.000	430.000	960.000	430.000	1000.000	427.000	1005.000
GR	426.700	1010.000	427.000	1010.000	430.000	1020.000	430.000	1040.000	440.000	1110.000
GR	450.000	1190.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GI	5.000	1320.000	2800.000	3480.000	6000.000	5080.000	0.000	0.000	0.000	0.000
LI	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000
X1	50390.000	13.000	1000.000	1020.000	1340.000	1340.000	1340.000	0.000	0.000	0.000
GR	460.000	730.000	450.000	875.000	440.000	960.000	434.000	1000.000	431.300	1005.000
GR	430.000	1010.000	431.500	1010.000	434.000	1020.000	435.000	1020.000	435.000	1330.000
GR	440.000	1400.000	450.000	1500.000	460.000	1550.000	0.000	0.000	0.000	0.000
GI	5.000	1290.000	2870.000	3300.000	5750.000	3300.000	0.000	0.000	0.000	0.000

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X1	31120.000	14.000	1000.000	1020.000	730.000	730.000	730.000	0.000	0.000	0.000
GR	400.000	470.000	450.000	660.000	440.000	850.000	437.000	925.000	456.000	1000.000
GR	453.300	1005.000	432.800	1010.000	433.300	1018.000	430.000	1020.000	437.000	1050.000
GR	457.000	1200.000	440.000	1250.000	450.000	1290.000	460.000	1370.000	0.000	0.000
GI	5.000	1230.000	2600.000	5240.000	5300.000	3240.000	0.000	0.000	0.000	0.000

X1	31200.000	13.000	1000.000	1020.000	580.000	580.000	580.000	0.000	0.000	0.000
GR	400.000	790.000	450.000	890.000	440.000	915.000	438.000	940.000	437.000	1000.000
GR	454.300	1005.000	433.000	1010.000	454.300	1017.000	437.000	1020.000	430.000	1000.000
GR	490.000	1110.000	450.000	1150.000	460.000	1250.000	0.000	0.000	0.000	0.000

X1	31600.000	0.000	0.000	0.000	100.000	100.000	100.000	0.000	0.000	0.000
GR	0.000	0.000	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.000
GR	5.000	0.120	1000.000	0.060	1020.000	0.120	1118.000	0.000	0.000	0.000

X1	31680.000	10.000	975.000	1040.000	80.000	80.000	80.000	0.000	0.000	0.000
X2	10.000	0.000	0.000	0.000	0.000	0.000	0.000	450.000	450.000	0.000
GR	450.400	620.000	440.500	920.000	441.100	975.000	437.200	1000.000	434.400	1005.000
GR	454.600	1010.000	454.000	1015.000	458.600	1020.000	440.000	1025.000	440.800	1050.000
GR	445.000	1040.000	457.900	1118.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	1.950	1.600	2.800	0.000	8.900	1.800	540.000	1.930	434.500	434.400

DBL-3 SR 1777

X1	31700.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	449.400	450.800	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	450.800	450.800	0.000
GR	8.000	820.000	458.400	0.000	852.000	455.800	0.000	952.000	451.100	0.000
GR	975.000	450.800	0.000	1040.000	450.800	0.000	1052.000	450.800	0.000	1092.000
GR	452.700	0.000	1118.000	457.900	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.120	0.120	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.000	0.000	0.000	0.000	0.000	7.100	940.000	1025.000	0.000	0.000

DBL-4 VALLI

X1	31700.000	9.000	1000.000	1021.000	580.000	580.000	580.000	0.000	0.000	0.000
GR	450.400	620.000	440.500	920.000	437.400	1000.000	434.400	1002.000	434.100	1007.000
GR	430.300	1010.000	457.100	1021.000	459.700	1020.000	457.900	1118.000	0.000	0.000
GR	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
GR	0.300	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000

X1	31800.000	11.000	1000.000	1020.000	140.000	140.000	140.000	0.000	0.000	0.000
GR	400.000	750.000	450.000	820.000	440.000	950.000	437.500	1000.000	435.000	1005.000
GR	450.000	1010.000	455.000	1017.000	457.500	1070.000	450.000	1070.000	450.000	1100.000
GR	400.000	1100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	32200.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	1.100	0.000
GR	0.000	0.000	0.000	0.000	0.000	7.100	978.000	1225.000	0.000	0.000

X1	33000.000	0.000	1000.000	1020.000	800.000	800.000	800.000	0.000	0.000	0.000
GR	400.000	750.000	450.000	920.000	440.000	1000.000	438.500	1005.000	438.500	1017.000
GR	440.000	1020.000	440.000	1200.000	440.000	1275.000	450.000	1410.000	460.000	1000.000
GR	0.000	0.000	0.000	0.000	0.000	7.100	992.000	1200.000	0.000	0.000

X1	33500.000	0.000	0.000	0.000	500.000	500.000	500.000	0.000	1.700	0.000
GR	5.000	1130.000	2410.000	3000.000	5200.000	3000.000	0.000	0.000	0.000	0.000

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	GR	489.400	1009.000	489.500	1012.000	472.200	1020.000	480.800	1115.000	492.400	1215.000
EI	0.000	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	7.100	900.000	1000.000	0.000	0.000
X1	34000.000	11.000	495.000	1026.000	500.000	500.000	500.000	0.000	0.000	0.000	0.000
GR	480.000	795.000	450.000	800.000	478.200	995.000	444.800	1001.000	442.200	1004.000	1004.000
GR	442.000	1012.000	442.500	1020.000	453.000	1021.000	446.400	1026.000	450.000	1090.000	1090.000
GR	480.000	1180.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EI	0.000	0.000	0.000	0.000	0.000	7.100	975.000	1095.000	0.000	0.000	0.000
DBL-5 VALLEY											
X1	34580.000	20.000	1000.000	1051.000	580.000	580.000	580.000	0.000	0.000	0.000	0.000
GR	472.700	757.000	470.500	839.000	469.400	857.000	465.600	911.000	458.400	957.000	957.000
GR	450.400	1000.000	447.000	1006.000	446.900	1008.000	444.400	1009.000	444.200	1017.000	1017.000
GR	444.700	1025.000	447.500	1026.000	448.800	1031.000	448.200	1057.000	452.700	1157.000	1157.000
GR	454.100	1180.000	458.500	1212.000	468.500	1257.000	482.000	1357.000	489.500	1433.000	1433.000
EI	5.000	950.000	2000.000	2550.000	4450.000	2550.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	920.000	1050.000	0.000	0.000	0.000
X1	35000.000	12.000	995.000	1026.000	420.000	420.000	420.000	0.000	0.000	0.000	0.000
GR	470.000	670.000	460.000	820.000	453.000	920.000	452.200	995.000	448.800	1001.000	1001.000
GR	442.200	1004.000	446.000	1012.000	446.500	1020.000	449.300	1021.000	450.400	1026.000	1026.000
GR	460.000	1100.000	470.000	1180.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EI	5.000	740.000	1610.000	2010.000	3550.000	2010.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1080.000	0.000	0.000	0.000
DBL-7 VALLEY											
X1	37110.000	12.000	1000.000	1014.000	2110.000	2110.000	2110.000	0.000	0.000	0.000	0.000
GR	479.700	817.000	465.100	917.000	459.500	942.000	459.900	1000.000	455.900	1002.000	1002.000
GR	455.800	1007.000	458.000	1013.000	459.900	1014.000	460.000	1017.000	461.800	1117.000	1117.000
GR	479.500	1217.000	461.000	1226.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EI	5.000	420.000	970.000	1220.000	2200.000	1220.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	985.000	1110.000	0.000	0.000	0.000
X1	38230.000	12.000	1000.000	1016.000	1120.000	1120.000	1120.000	0.000	0.000	0.000	0.000
GR	490.000	710.000	480.000	800.000	470.000	940.000	466.000	970.000	462.500	1000.000	1000.000
GR	462.500	1005.000	462.500	1013.000	465.500	1016.000	466.000	1150.000	470.000	1190.000	1190.000
GR	480.000	1260.000	490.000	1340.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EI	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1035.000	0.000	0.000	0.000
X1	39150.000	10.000	1000.000	1020.000	920.000	920.000	920.000	0.000	-1.400	0.000	0.000
GR	491.500	715.000	478.500	815.000	471.900	915.000	471.400	1000.000	469.500	1005.000	1005.000
GR	469.400	1009.000	469.500	1012.000	472.200	1020.000	460.200	1115.000	492.400	1232.000	1232.000
EI	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000	0.000
X1	39210.000	9.000	1000.000	1020.000	80.000	80.000	80.000	0.000	0.000	0.000	0.000
GR	490.500	715.000	484.500	760.000	480.000	855.000	472.200	935.000	470.500	1000.000	1000.000
GR	470.700	1010.000	471.200	1020.000	479.800	1115.000	491.000	1215.000	0.000	0.000	0.000
EI	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000	0.000
DBL-8 SR 1726											
X1	39250.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.200	0.000	0.000
EI	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000	0.000
X1	39300.000	10.000	1000.000	1020.000	70.000	70.000	70.000	0.000	-0.400	0.000	0.000
GR	491.300	715.000	478.500	815.000	471.900	915.000	471.400	1000.000	469.500	1005.000	1005.000

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GR	489.400	1009.000	489.500	1012.000	472.200	1020.000	480.800	1115.000	492.400	1215.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000

OBL-9 VALLEY

XI	39370.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.400	0.000
GR	5.000	360.000	850.000	1080.000	1920.000	1080.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1035.000	0.000	0.000

XI	40000.000	0.000	0.000	0.000	630.000	630.000	630.000	0.000	3.200	0.000
GR	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	760.000	1185.000	0.000	0.000
NH	5.000	0.050	769.000	0.027	802.000	0.035	1085.000	0.027	1185.000	0.070
NI	1285.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

XI	40150.000	17.000	769.000	1185.000	150.000	150.000	150.000	0.000	0.000	0.000
GR	506.000	585.000	494.500	685.000	491.300	715.000	489.500	769.000	484.000	788.000
GR	485.000	790.000	489.000	602.000	487.900	885.000	488.000	1035.000	489.000	1060.000
GR	489.400	1085.000	485.700	1118.000	485.700	1128.000	488.300	1150.000	488.800	1172.000
GR	492.900	1185.000	505.000	1285.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	760.000	1185.000	0.000	0.000

OBL-10 HOGAN LAKE DAM

XI	40150.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
GR	0.120	0.120	0.068	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	250.000	1060.000	0.000	0.000
GR	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1140.000	0.000	0.000

XI	40700.000	15.000	1000.000	1016.000	450.000	450.000	450.000	0.000	-2.000	0.000
GR	500.000	750.000	490.000	320.000	487.000	870.000	481.000	960.000	479.500	1000.000
GR	477.800	1002.000	477.200	1009.000	478.300	1012.000	480.000	1016.000	481.000	1140.000
GR	488.000	1190.000	490.000	1240.000	560.000	1320.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1140.000	0.000	0.000

XI	41000.000	0.000	0.000	0.000	300.000	300.000	300.000	0.000	2.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	925.000	1070.000	0.000	0.000

XI	41900.000	14.000	1006.000	1014.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	516.000	590.000	500.000	690.000	496.000	850.000	487.000	860.000	485.000	985.000
GR	485.500	1000.000	482.200	1002.000	482.200	1007.000	482.700	1010.000	482.000	1014.000
GR	487.000	1120.000	490.000	1216.000	500.000	1280.000	516.000	1320.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1040.000	0.000	0.000

XI	42300.000	0.000	0.000	0.000	400.000	400.000	400.000	0.000	2.100	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	920.000	1090.000	0.000	0.000

XI	42700.000	11.000	1006.000	1012.000	400.000	400.000	400.000	0.000	0.000	0.000
GR	510.000	650.000	500.000	600.000	490.000	950.000	487.700	1000.000	486.500	1002.000
GR	480.500	1007.000	480.900	1010.000	489.200	1012.000	490.000	1120.000	500.000	1200.000
GR	510.000	1300.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	950.000	1040.000	0.000	0.000

XI	42045.000	16.000	1000.000	1012.000	945.000	945.000	945.000	0.000	0.000	0.000
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X1	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	512.100	586.000	507.500	660.000	506.600	686.000	506.200	715.000	504.400	762.000
GR	504.700	786.000	494.000	886.000	490.000	986.000	488.800	1000.000	487.600	1002.000
GR	487.600	1007.000	488.000	1010.000	490.300	1012.000	493.300	1086.600	506.000	1186.000
GR	511.300	1254.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	5.200	0.100	35.000	0.000	487.600	487.600
ET	0.000	0.000	0.000	0.000	0.000	7.100	925.000	1055.000	0.000	0.000

OBL-11 SR 1009

X1	42895.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	494.100	494.700	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.300	495.200	494.700	0.000
BT	13.000	586.000	512.100	0.000	609.000	507.500	0.000	686.000	506.600	0.000
BT	715.000	506.200	0.000	762.000	504.400	0.000	786.000	504.700	0.000	855.000
BT	498.800	0.000	955.000	495.400	0.000	1004.000	695.200	0.000	1055.000	494.700
BT	0.000	1098.000	494.800	0.000	1186.000	506.000	0.000	1254.000	511.300	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	930.000	1055.000	0.000	0.000

X1	42980.000	16.000	1000.000	1012.000	85.000	85.000	85.000	0.000	-0.500	0.000
GR	513.000	586.000	508.400	660.000	507.500	686.000	507.100	715.000	505.500	762.000
GR	505.600	786.000	494.900	886.000	490.900	986.000	489.700	1000.000	488.500	1002.000
GR	488.500	1007.000	488.900	1010.000	491.200	1012.000	494.200	1086.000	506.000	1186.000
GR	512.200	1254.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
RC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	935.000	1050.000	0.000	0.000

OBL-12 VALLEY

X1	43090.000	0.000	0.000	0.000	110.000	110.000	110.000	0.000	0.500	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 ORANGE COUNTY FIA STUDY
 T2 BOLTIN CREEK
 T3 100YR FLOW PROFILE AUG 76 CWF

J1	ICHECK	INO	WINV	IDIR	STRT	PEIRIC	HVINS	U	WSEL	FO
	-10.	6.	0.	0.	0.000000	0.00	0.0	0.	433.200	0.000
J2	RPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CRNIM	ITRACE
	15.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	15.000

*PROF 2

CHV= 0.100 CEHV= 0.300
 *SLCNO 27620.000

SECTN	DEPTH	CWSEL	CRWS	WSELK	EC	HV	HL	ULOSS	BANK ELEV
TIME	VLOB	VCH	VRGB	XNL	XNGH	XRR	WTR	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLBRK	ITRIAL	IDC	ICONT	CORAK	TGPWID	ENST

3470 ENCROACHMENT STATIONS= 796.0 1110.0 TYPE= 1 TARGET= 314.000

OBL-AA SCS VALLEY SECTION

27620.00	9.60	433.20	0.00	432.20	433.31	0.11	0.00	0.00	427.30
3700.	2258.	772.	672.	1176.	170.	409.	0.	0.	420.60
0.00	1.92	4.54	1.64	0.120	0.000	0.120	0.000	423.60	796.00
0.002401	0.	0.	0.	0	0	0	0.00	314.00	1110.00

FLOW DISTRIBUTION FOR SECTN= 27620.00 CWSEL= 433.20

STA=	796.	807.	907.	1000.	1020.	1107.	1110.
PER CT	3.2	32.0	29.7	20.9	17.8	0.5	
AREA=	74.4	595.0	506.9	170.1	395.9	13.4	
VEL=	1.6	2.0	1.9	0.5	1.7	0.9	

*SECTN 28000.000
 28000 RAI RI= 810.22 WSEL= 433.04 ENC 01= 810.22 WSEL= 434.04 RATIO= 0.0000
 RAI 01= 1137. RATIO LCB,CF,KOB= 0.9415 0.1425 0.2160 WSEL= 424.04

3470 ENCROACHMENT STATIONS=	764.3	1073.2	TYPE=	4	TARGET=	0.200
28000.00	9.76	434.06	0.00	433.04	434.16	0.10
3700.	2585.	739.	576.	1413.	173.	252.
0.05	1.83	4.27	1.50	0.120	0.060	0.120
0.002069	380.	380.	380.	2	0	0

FLOW DISTRIBUTION FOR SECTN= 28000.00 CWSEL= 434.06

REC2 RELEASE DATED NOV 76 UPDATED AUG 77

ERROR CORR - 01,02

MODIFICATION - 50,51,52,53

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

100YR FLY PROFILE AUG

SUMMARY PRINTOUT

SELCN	EWSEL	EG	ELLC	FLM1N	10KAS	G
27620.000	452.20	452.21	0.00	423.60	23.21	3700.00
27620.000	453.20	433.31	0.00	423.60	24.01	3700.00
28000.000	433.04	452.11	0.00	424.30	20.85	3700.00
28000.000	434.06	434.16	0.00	424.30	20.69	3700.00
28850.000	455.91	436.59	0.00	426.70	95.49	3700.00
28850.000	436.64	437.12	0.00	426.70	63.34	3700.00
30390.000	440.67	440.73	0.00	430.80	11.73	3400.00
30390.000	441.33	441.39	0.00	430.80	14.79	3400.00
31120.000	441.77	441.86	0.00	432.80	21.57	3300.00
31120.000	442.61	442.74	0.00	432.80	23.33	3300.00
31500.000	442.81	443.10	0.00	433.80	46.65	3240.00
31500.000	443.68	444.09	0.00	433.80	51.32	3240.00
31600.000	443.30	443.36	0.00	434.10	43.51	3240.00
31600.000	444.21	444.37	0.00	434.10	45.09	3240.00
31680.000	443.35	444.96	0.00	434.40	285.81	3240.00
31680.000	444.50	445.52	0.00	434.40	164.37	3240.00
* 31700.000	445.06	445.53	449.40	434.50	129.93	3240.00
* 31700.000	446.06	446.70	449.40	434.50	85.47	3240.00
31760.000	445.53	446.66	0.00	434.10	79.14	3240.00
31760.000	446.37	447.21	0.00	434.10	95.06	3240.00
31760.000	447.04	447.21	0.00	434.60	17.24	3240.00
31900.000	447.46	447.71	0.00	434.60	26.99	3240.00
32200.000	447.59	447.80	0.00	435.70	21.82	3240.00
32200.000	448.12	448.45	0.00	435.70	25.03	3240.00
33000.000	448.77	448.81	0.00	438.30	7.16	3240.00
33000.000	449.53	449.58	0.00	438.30	7.96	3240.00

SECHO	CWSEL	EG	ELLC	ELMIN	10KAS	U
33500.000	449.24	449.31	0.00	440.00	13.98	3240.00
33500.000	450.04	450.15	0.00	440.00	16.40	3240.00
* 34000.000	450.58	451.61	0.00	442.00	141.49	3000.00
34000.000	451.13	452.04	0.00	442.00	109.82	3000.00
34580.000	454.97	455.26	0.00	444.20	34.32	3000.00
34580.000	455.31	455.73	0.00	444.20	40.50	3000.00
35000.000	456.43	456.80	0.00	442.20	38.46	2550.00
35000.000	456.94	457.29	0.00	442.20	33.47	2550.00
37110.000	464.64	464.79	0.00	455.80	36.90	2010.00
37110.000	465.03	465.25	0.00	455.80	44.25	2010.00
38230.000	468.70	468.81	0.00	462.30	34.40	1220.00
38230.000	469.50	469.66	0.00	462.30	32.79	1220.00
39150.000	473.24	473.58	0.00	468.00	81.28	1220.00
39150.000	473.73	474.03	0.00	468.00	73.09	1220.00
39210.000	473.84	474.39	0.00	470.50	253.23	1220.00
39210.000	474.27	474.69	0.00	470.50	158.79	1220.00
39230.000	474.41	474.80	0.00	470.70	159.49	1220.00
39230.000	474.61	474.99	0.00	470.70	137.44	1220.00
39300.000	475.14	475.27	0.00	469.00	34.43	1220.00
39300.000	475.30	475.52	0.00	469.00	46.67	1220.00
39370.000	475.39	475.54	0.00	469.40	39.23	1220.00
39370.000	475.53	475.66	0.00	469.40	49.19	1220.00
40000.000	478.10	478.26	0.00	472.60	48.50	1080.00
40000.000	478.63	478.83	0.00	472.60	44.85	1080.00
* 40130.000	488.14	488.54	0.00	484.00	23.01	1080.00
* 40130.000	488.08	488.35	0.00	484.00	25.81	1080.00
* 40150.000	488.18	488.63	0.00	484.10	24.96	1080.00
* 40150.000	488.24	488.64	0.00	484.10	22.70	1080.00
40700.000	488.75	488.75	0.00	475.80	0.41	1080.00
40700.000	488.76	488.77	0.00	475.80	0.68	1080.00
41000.000	488.76	488.77	0.00	477.80	0.95	1080.00
41000.000	488.79	488.80	0.00	477.80	1.33	1080.00
41900.000	488.95	489.00	0.00	482.20	15.33	1080.00
41900.000	489.04	489.15	0.00	482.20	20.79	1080.00
42300.000	489.93	490.10	0.00	484.30	36.56	1080.00
42300.000	490.54	490.87	0.00	484.30	71.71	1080.00
42700.000	492.05	492.17	0.00	486.50	47.55	1080.00
42700.000	492.93	493.13	0.00	486.50	45.30	1080.00

DEBIT	CREDIT	LI	ELLC	ELC	10KAS	G
42045.000	494.94	495.62	0.00	487.60	20.67	1080.00
42045.000	495.06	495.99	0.00	487.60	21.53	1090.00
42095.000	496.50	496.53	494.10	487.60	6.42	1080.00
42095.000	496.59	496.65	494.10	487.60	9.63	1080.00
42950.000	496.50	496.59	0.00	488.00	8.05	1080.00
42950.000	496.68	496.74	0.00	488.00	11.84	1080.00
43096.000	496.65	496.70	0.00	488.50	10.85	1080.00
43096.000	496.81	496.90	0.00	488.50	15.89	1080.00

100YR FLOW PROFILE AUG

SUMMARY PRINTOUT

PRINTED BY USER

SECTID	LNSEI	SSTA	STORL	STORR	ENDST	TOFR10
27020.000	432.20	646.66	1000.00	1020.00	1221.12	574.46
27020.000	433.20	796.00	1000.00	1020.00	1110.00	514.00
28000.000	435.04	674.20	1000.00	1020.00	1222.79	578.59
28000.000	434.06	764.25	1000.00	1020.00	1073.25	308.99
28850.000	435.91	903.84	1000.00	1020.00	1081.38	177.54
28850.000	436.64	904.00	1000.00	1020.00	1081.00	177.00
30390.000	440.67	954.26	1000.00	1020.00	1406.75	452.48
30390.000	441.33	1024.00	1000.00	1020.00	1293.80	293.60
31120.000	441.77	916.32	1000.00	1020.00	1240.64	424.32
31120.000	442.61	926.00	1000.00	1020.00	1167.61	241.01
31500.000	442.51	853.29	1000.00	1020.00	1121.26	227.36
31500.000	443.68	945.35	1000.00	1020.00	1076.00	130.73
31600.000	443.30	892.50	1000.00	1020.00	1122.00	229.51
31600.000	444.21	943.95	1000.00	1020.00	1077.37	133.43
31680.000	443.35	975.00	975.00	1040.00	1044.58	69.50
31680.000	444.50	975.00	975.00	1040.00	1046.00	71.00
31700.000	443.08	975.00	975.00	1040.00	1046.00	71.00
31700.000	444.05	975.00	975.00	1040.00	1046.00	71.00
31750.000	445.53	945.74	1000.00	1021.00	1055.47	109.66
31750.000	446.37	946.00	1000.00	1021.00	1055.00	109.00
31760.000	447.00	926.35	1000.00	1020.00	1068.13	223.62
31760.000	447.46	935.35	1000.00	1020.00	1055.11	119.56
32200.000	447.59	865.75	1000.00	1020.00	1085.95	220.21
32200.000	448.12	946.36	1000.00	1020.00	1053.20	112.64
33000.000	446.77	906.13	1000.00	1020.00	1376.79	476.64
33000.000	449.53	976.00	1000.00	1020.00	1235.00	257.00
32500.000	445.24	912.30	1000.00	1020.00	1343.00	453.30
32500.000	446.04	976.00	1000.00	1020.00	1292.00	216.00
34000.000	454.58	795.77	995.00	1020.00	1095.19	295.46
34000.000	451.13	966.00	925.00	1026.00	1060.00	160.00
34500.000	454.97	875.05	1000.00	1031.00	1180.51	216.05
34500.000	453.51	975.00	1000.00	1031.00	1092.00	120.00
35000.000	456.45	876.77	995.00	1020.00	1076.20	201.23
35000.000	456.96	926.00	995.00	1026.00	1050.00	130.00
37110.000	454.64	914.00	1000.00	1014.00	1234.20	214.12
37110.000	463.03	950.00	1000.00	1014.00	1068.00	130.00

100YR FLOW PROFILE AUG
 SUMMARY PRINTOUT
 SECTID LNSEI SSTA STORL STORR ENDST TOFR10
 27020.000 432.20 646.66 1000.00 1020.00 1221.12 574.46
 27020.000 433.20 796.00 1000.00 1020.00 1110.00 514.00
 28000.000 435.04 674.20 1000.00 1020.00 1222.79 578.59
 28000.000 434.06 764.25 1000.00 1020.00 1073.25 308.99
 28850.000 435.91 903.84 1000.00 1020.00 1081.38 177.54
 28850.000 436.64 904.00 1000.00 1020.00 1081.00 177.00
 30390.000 440.67 954.26 1000.00 1020.00 1406.75 452.48
 30390.000 441.33 1024.00 1000.00 1020.00 1293.80 293.60
 31120.000 441.77 916.32 1000.00 1020.00 1240.64 424.32
 31120.000 442.61 926.00 1000.00 1020.00 1167.61 241.01
 31500.000 442.51 853.29 1000.00 1020.00 1121.26 227.36
 31500.000 443.68 945.35 1000.00 1020.00 1076.00 130.73
 31600.000 443.30 892.50 1000.00 1020.00 1122.00 229.51
 31600.000 444.21 943.95 1000.00 1020.00 1077.37 133.43
 31680.000 443.35 975.00 975.00 1040.00 1044.58 69.50
 31680.000 444.50 975.00 975.00 1040.00 1046.00 71.00
 31700.000 443.08 975.00 975.00 1040.00 1046.00 71.00
 31700.000 444.05 975.00 975.00 1040.00 1046.00 71.00
 31750.000 445.53 945.74 1000.00 1021.00 1055.47 109.66
 31750.000 446.37 946.00 1000.00 1021.00 1055.00 109.00
 31760.000 447.00 926.35 1000.00 1020.00 1068.13 223.62
 31760.000 447.46 935.35 1000.00 1020.00 1055.11 119.56
 32200.000 447.59 865.75 1000.00 1020.00 1085.95 220.21
 32200.000 448.12 946.36 1000.00 1020.00 1053.20 112.64
 33000.000 446.77 906.13 1000.00 1020.00 1376.79 476.64
 33000.000 449.53 976.00 1000.00 1020.00 1235.00 257.00
 32500.000 445.24 912.30 1000.00 1020.00 1343.00 453.30
 32500.000 446.04 976.00 1000.00 1020.00 1292.00 216.00
 34000.000 454.58 795.77 995.00 1020.00 1095.19 295.46
 34000.000 451.13 966.00 925.00 1026.00 1060.00 160.00
 34500.000 454.97 875.05 1000.00 1031.00 1180.51 216.05
 34500.000 453.51 975.00 1000.00 1031.00 1092.00 120.00
 35000.000 456.45 876.77 995.00 1020.00 1076.20 201.23
 35000.000 456.96 926.00 995.00 1026.00 1050.00 130.00
 37110.000 454.64 914.00 1000.00 1014.00 1234.20 214.12
 37110.000 463.03 950.00 1000.00 1014.00 1068.00 130.00

SECNO	CWSEL	SS1A	STGHL	STCHR	ENDSI	TOPXID
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38230.000	468.70	949.75	1000.00	1016.00	1177.00	227.25
38230.000	469.50	955.00	1000.00	1016.00	1110.00	125.00

39150.000	473.24	872.25	1000.00	1020.00	1046.93	174.70
39150.000	473.73	930.00	1000.00	1020.00	1035.00	105.00

39210.000	473.84	913.91	1000.00	1020.00	1049.22	135.30
39210.000	474.27	930.00	1000.00	1020.00	1035.00	105.00

39230.000	474.41	909.19	1000.00	1020.00	1053.29	144.10
39230.000	474.61	930.00	1000.00	1020.00	1035.00	105.00

39300.000	475.14	858.20	1000.00	1020.00	1050.84	198.65
39300.000	475.36	930.00	1000.00	1020.00	1035.00	105.00

39370.000	475.59	860.52	1000.00	1020.00	1055.21	194.69
39370.000	475.63	930.00	1000.00	1020.00	1035.00	105.00

40000.000	478.10	868.07	1000.00	1020.00	1049.86	181.79
40000.000	478.63	930.00	1000.00	1020.00	1035.00	105.00

* 40130.000	480.14	771.75	769.00	1105.00	1106.15	268.70
* 40130.000	488.08	771.85	769.00	1105.00	1105.62	261.31

* 40150.000	488.19	771.81	769.00	1105.00	1165.78	263.49
* 40150.000	488.24	771.72	769.00	1105.00	1106.20	265.37

40700.000	488.75	813.20	1000.00	1016.00	1249.96	432.70
40700.000	488.76	935.00	1000.00	1016.00	1140.00	205.00

41000.000	488.76	840.61	1000.00	1016.00	1209.09	368.40
41000.000	488.79	935.00	1000.00	1016.00	1140.00	205.00

41950.000	488.95	840.46	1000.00	1014.00	1170.61	338.14
41950.000	489.04	925.00	1000.00	1014.00	1070.00	145.00

42300.000	489.95	851.67	1000.00	1014.00	1145.00	293.34
42300.000	490.54	930.00	1000.00	1014.00	1040.00	90.00

42700.000	492.05	935.65	1000.00	1012.00	1164.64	229.19
42700.000	492.95	960.00	1000.00	1012.00	1090.00	110.00

42845.000	494.94	877.20	1000.00	1012.00	1098.95	221.73
42845.000	495.86	930.00	1000.00	1012.00	1040.00	90.00

42895.000	496.50	862.00	1000.00	1012.00	1111.16	240.52
42895.000	496.59	925.00	1000.00	1012.00	1055.00	130.00

42980.000	496.56	865.80	1000.00	1012.00	1108.60	242.00
42980.000	496.68	930.00	1000.00	1012.00	1055.00	125.00

43090.000	496.65	869.71	1000.00	1012.00	1105.59	235.67
43090.000	496.81	935.00	1000.00	1012.00	1050.00	115.00

LIBRARY OF ERRORS

CAUTION	SECNO=31700.000	PROFILE= 1	HYDRAULIC JUMP U.S.
CAUTION	SECNO=31700.000	PROFILE= 2	HYDRAULIC JUMP U.S.
CAUTION	SECNO=34000.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=34000.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=34000.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=40130.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40130.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=40130.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=40130.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40130.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=40130.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=40150.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40150.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=40150.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=40150.000	PROFILE= 2	MINIMUM SPECIFIC ENERGY

FLOODWAY DATA, 100YR FLOW PROFILE AUG
 PROFILE NO. 2

STATION	FLOODWAY			WATER SURFACE ELEVATION		
	WIDTH (FT)	SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
27620.000	314.	1756.	2.1	433.2	432.2	1.0
28080.000	309.	1838.	2.0	434.0	433.0	1.0
28850.000	177.	942.	3.9	436.0	435.9	0.7
30390.000	294.	1944.	1.8	441.4	440.7	0.7
31120.000	241.	1472.	2.2	442.0	441.8	0.8
31500.000	131.	869.	3.7	443.7	442.8	0.9
31600.000	133.	915.	3.5	444.2	443.3	0.9
31680.000	71.	400.	6.1	444.5	443.3	1.2
31700.000	71.	503.	6.4	446.1	445.1	1.0
31760.000	109.	663.	4.9	446.3	445.5	0.8
31900.000	120.	1086.	3.0	447.4	447.0	0.4
32200.000	113.	992.	3.3	448.1	447.6	0.5
33000.000	257.	2096.	1.5	449.0	448.8	0.8
33500.000	216.	1551.	2.1	450.0	449.2	0.8
34000.000	160.	543.	5.1	451.2	450.6	0.6
34580.000	120.	769.	3.9	455.3	455.0	0.3
35000.000	130.	750.	3.4	456.9	456.4	0.5
37110.000	138.	715.	2.8	465.0	464.6	0.4
38230.000	125.	529.	2.3	469.5	468.7	0.8
39150.000	105.	378.	3.2	473.7	473.2	0.5
39210.000	105.	305.	4.0	474.2	473.6	0.6
39230.000	105.	320.	3.8	474.0	474.4	0.2
39580.000	105.	430.	2.8	475.3	475.1	0.2
39370.000	105.	431.	2.8	475.0	475.4	0.2
40000.000	105.	410.	2.6	476.0	478.1	0.5
40130.000	394.	195.	5.9	488.1	488.1	0.0
40150.000	394.	212.	5.1	488.2	488.2	0.0
40700.000	205.	2116.	0.5	488.7	488.7	0.0
41000.000	205.	1711.	0.6	488.0	488.0	0.0
41900.000	145.	569.	1.9	489.1	489.0	0.1
42300.000	90.	335.	3.2	490.5	489.9	0.6
42700.000	110.	440.	2.5	492.7	492.0	0.9
42645.000	90.	510.	2.1	495.0	494.9	0.9
42855.000	130.	764.	1.4	496.0	496.5	0.1
42980.000	125.	794.	1.5	496.7	496.0	0.1
43090.000	115.	619.	1.7	496.9	496.7	0.2

 RELEASE DATED NOV 76 UPDATED AUG 77

RI R-CORR - 01,02
 IIFICATION - 50,51,52,53

BOLIN CREEK
 053

C

T1 ORANGE CO FIS
 T2 10 YR NATURAL
 T3 BOLIN CREEK

J1	ICHECK	INQ	NINV	IOIR	STRT	METRIC	HVINS	U	WSEL	FU
	0.	2.	0.	0.	0.000000	0.00	0.0	0.	430.300	0.000
J2	NPROF	IPLDT	PREVS	XSECV	XSP-C	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	30.000	1.000	3.000	42.000	41.000	0.000	38.000	1.000	13.000	14.000
	15.000	55.000	26.000	56.000	0.000	38.000	1.000	53.000	21.000	22.000
	54.000	4.000	0.000	150.000	201.000	0.000	0.000	0.000	0.000	0.000
NC	0.120	0.120	0.060	0.100	0.300	0.000	0.000	0.000	0.000	0.000
QT	5.000	1410.000	2970.000	3700.000	6400.000	3700.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	0.000	7.100	796.000	1110.000	0.000

OUL-AA SCS VALLEY SECTION

X1	27620.000	13.000	1000.000	1020.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	439.500	557.000	434.500	607.000	428.700	707.000	426.300	807.000	428.200	907.000
GR	427.300	1000.000	424.500	1004.000	423.600	1009.000	424.600	1018.000	428.600	1020.000
GR	428.700	1107.000	431.000	1207.000	439.500	1307.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000
X1	28000.000	0.000	0.000	0.000	380.000	380.000	380.000	0.000	0.700	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.100	904.000	1081.000	0.000	0.000
X1	28850.000	11.000	1000.000	1020.000	850.000	850.000	850.000	0.000	0.000	0.000
GR	450.000	790.000	440.000	865.000	430.000	960.000	430.000	1000.000	427.000	1005.000
GR	426.700	1010.000	427.000	1018.000	430.000	1020.000	430.000	1040.000	440.000	1110.000
GR	450.000	1190.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
QT	5.000	1320.000	2800.000	3480.000	6000.000	3480.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	10.400	0.000	0.000	0.000	0.000
X1	30390.000	13.000	1000.000	1020.000	1540.000	1540.000	1540.000	0.000	0.000	0.000
GR	460.000	730.000	450.000	875.000	440.000	960.000	434.000	1000.000	431.300	1005.000
GR	430.000	1010.000	431.300	1018.000	434.000	1020.000	435.700	1050.000	435.000	1350.000
GR	440.000	1400.000	450.000	1500.000	460.000	1550.000	0.000	0.000	0.000	0.000

DT 5.000 1290.000 2670.000 3300.000 5750.000 3300.000 0.000 0.000 0.000 0.000

X1 31120.000 14.000 1000.000 1020.000 730.000 730.000 730.000 0.000 0.000 0.000
GR 460.000 470.000 450.000 860.000 440.000 850.000 437.000 925.000 436.000 1000.000
GR 433.300 1005.000 432.800 1010.000 433.300 1010.000 436.000 1020.000 437.000 1050.000
GR 437.000 1200.000 440.000 1230.000 450.000 1290.000 460.000 1370.000 0.000 0.000
DT 5.000 1230.000 2600.000 3240.000 5300.000 3240.000 0.000 0.000 0.000 0.000

X1 31500.000 13.000 1000.000 1020.000 380.000 380.000 380.000 0.000 0.000 0.000
GR 460.000 740.000 450.000 840.000 440.000 715.000 438.000 940.000 437.000 1000.000
GR 434.300 1005.000 433.800 1010.000 434.300 1017.000 437.000 1020.000 438.000 1080.000
GR 440.000 1110.000 450.000 1150.000 460.000 1230.000 0.000 0.000 0.000 0.000

X1 31600.000 0.000 0.000 0.000 100.000 100.000 100.000 0.000 0.500 0.000
NC 0.000 0.000 0.000 0.300 0.500 0.000 0.000 0.000 0.000 0.000
NH 5.000 0.120 1000.000 0.060 1020.000 0.120 1118.000 0.000 0.000 0.000

X1 31680.000 12.000 975.000 1046.000 80.000 80.000 80.000 0.000 0.000 0.000
X3 10.000 0.000 0.000 0.000 0.000 0.000 0.000 450.000 450.000 0.000
GR 458.400 826.000 448.500 926.000 441.100 975.000 437.200 1000.000 434.400 1005.000
GR 434.600 1010.000 434.600 1015.000 438.600 1020.000 440.000 1025.000 440.800 1030.000
GR 443.600 1046.000 457.900 1118.000 0.000 0.000 0.000 0.000 0.000 0.000
SB 1.050 1.600 2.800 0.000 8.900 1.000 540.000 1.930 434.500 434.400

QBL-3 SR-1777

X1 31700.000 0.000 0.000 0.000 20.000 20.000 20.000 0.000 0.100 0.000
X2 0.000 0.000 1.000 429.400 450.800 0.000 0.000 0.000 0.000 0.000
X3 10.000 0.000 0.000 0.000 0.000 0.000 0.000 450.800 450.800 0.000
BT 8.000 826.000 458.400 0.000 852.000 455.900 0.000 952.000 451.100 0.000
BT 975.000 450.800 0.000 1046.000 450.800 0.000 1052.000 450.800 0.000 1042.000
BT 452.700 0.000 1118.000 457.900 0.000 0.000 0.000 0.000 0.000 0.000
NC 0.120 0.120 0.060 0.000 0.000 0.000 0.000 0.000 0.000 0.000
CT 0.000 0.000 0.000 0.000 0.000 0.000 7.100 946.000 1055.000 0.000

QBL-4 VALLEY

X1 31760.000 9.000 1000.000 1021.000 60.000 60.000 60.000 0.000 0.000 0.000
GR 458.400 826.000 448.500 926.000 437.400 1000.000 434.400 1002.000 434.100 1007.600
GR 434.300 1010.000 437.100 1021.000 439.700 1026.000 457.900 1118.000 0.000 0.000
NC 0.000 0.000 0.000 0.100 0.500 0.600 0.000 0.000 0.900 0.000
ET 0.000 0.000 0.000 0.000 0.000 10.400 0.000 0.000 0.000 0.000

X1 31900.000 11.000 1000.000 1020.000 140.000 140.000 140.000 0.000 0.000 0.000
GR 460.000 730.000 450.000 820.000 440.000 950.000 437.500 1000.000 435.000 1005.000
GR 434.600 1010.000 435.000 1017.000 437.500 1020.000 440.000 1060.000 450.000 1100.000
GR 460.000 1160.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000

X1 32200.000 0.000 0.000 0.000 300.000 300.000 300.000 0.000 1.100 0.000

X1 33000.000 10.000 1000.000 1020.000 860.000 860.000 860.000 0.000 0.000 0.000
GR 460.000 850.000 445.000 925.000 440.800 1000.000 438.300 1003.000 438.300 1017.000
GR 440.800 1020.000 442.000 1200.000 445.000 1275.000 450.000 1410.000 460.000 1680.000

X1 33500.000 0.000 0.000 0.000 500.000 500.000 500.000 0.000 1.700 0.000

X1	34000.000	11.000	995.000	1026.000	500.000	500.000	500.000	0.000	0.000	0.000
GR	460.000	795.000	450.000	800.000	448.200	995.000	444.800	1001.000	442.200	1004.000
GR	442.000	1012.000	442.500	1020.000	445.300	1021.000	448.400	1026.000	450.000	1090.000
GR	460.000	1180.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

OBL-5 VALLEY

X1	34580.000	20.000	1000.000	1031.000	580.000	580.000	580.000	0.000	0.000	0.000
GR	472.700	757.000	470.500	859.000	469.400	857.000	465.600	911.000	454.400	957.000
GR	450.400	1000.000	447.000	1006.000	445.900	1008.000	444.400	1009.000	444.200	1017.000
GR	444.700	1025.000	447.500	1026.000	448.600	1031.000	448.200	1057.000	452.700	1157.000
GR	454.100	1180.000	458.500	1212.000	468.500	1257.000	482.000	1357.000	489.300	1433.000
ET	5.000	950.000	2000.000	2550.000	4450.000	2550.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000

X1	35000.000	12.000	995.000	1026.000	420.000	420.000	420.000	0.000	0.000	0.000
GR	470.000	870.000	460.000	820.000	453.000	920.000	452.200	995.000	448.800	1001.000
GR	442.200	1034.000	446.000	1012.000	446.500	1020.000	449.300	1021.000	450.400	1026.000
GR	460.000	1100.000	470.000	1180.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	5.000	740.000	1610.000	2010.000	3550.000	2010.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000

DBL-7 VALLEY

X1	37110.000	12.000	1000.000	1014.000	2110.000	2110.000	2110.000	0.000	0.000	0.000
GR	479.700	817.000	465.100	917.000	459.500	942.000	459.900	1000.000	455.900	1002.000
GR	455.200	1007.000	456.000	1013.000	459.900	1014.000	460.000	1017.000	461.800	1117.000
GR	479.300	1217.000	481.000	1226.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	5.000	420.000	970.000	1220.000	2200.000	1220.000	0.000	0.000	0.000	0.000

X1	36230.000	12.000	1000.000	1016.000	1120.000	1120.000	1120.000	0.000	0.000	0.000
GR	490.000	710.000	480.000	880.000	470.000	940.000	466.000	970.000	465.500	1000.000
GR	462.300	1003.000	462.300	1013.000	465.300	1016.000	466.000	1150.000	470.000	1140.000
GR	486.000	1200.000	490.000	1380.000	0.000	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	7.400	0.000	0.000	0.000	0.000

X1	39150.000	10.000	1000.000	1020.000	920.000	920.000	920.000	0.000	-1.400	0.000
GR	491.500	715.000	478.300	815.000	471.900	915.000	471.400	1000.000	469.500	1005.000
GR	469.400	1009.000	469.500	1012.000	472.200	1020.000	480.800	1115.000	492.400	1215.000

X1	39210.000	9.000	1000.000	1020.000	60.000	60.000	60.000	0.000	0.000	0.000
GR	490.300	715.000	484.300	760.000	460.000	835.000	472.200	935.000	470.500	1000.000
GR	476.700	1010.000	471.200	1020.000	479.800	1115.000	491.200	1215.000	0.000	0.000

OBL-8 SR 1728

X1	39230.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.200	0.000
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X1	39300.000	10.000	1000.000	1020.000	70.000	70.000	70.000	0.000	-0.400	0.000
GR	491.500	715.000	478.300	815.000	471.900	915.000	471.400	1000.000	469.500	1005.000
GR	469.400	1009.000	469.500	1012.000	472.200	1020.000	480.800	1115.000	492.400	1215.000

OBL-9 VALLEY

X1	39370.000	0.000	0.000	0.000	70.000	70.000	70.000	0.000	0.400	0.000
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BT	5.000	360.000	850.000	1080.000	1920.000	1080.000	0.000	0.000	0.000	0.000
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X1	40000.000	0.000	0.000	0.000	630.000	630.000	630.000	0.000	3.200	0.000
NC	0.000	0.000	0.000	0.400	0.600	0.000	0.000	0.000	0.000	0.000

X1	40130.000	14.000	1000.000	1020.000	130.000	130.000	130.000	0.000	0.000	0.000
GR	506.000	585.000	494.500	685.000	491.300	715.000	487.000	748.000	475.400	915.000
GR	475.500	1000.000	473.400	1005.000	473.400	1012.000	476.200	1020.000	484.800	1115.000
GR	486.300	1150.000	488.800	1172.000	492.900	1185.000	505.000	1285.000	0.000	0.000
SB	0.000	1.600	2.900	0.000	0.200	0.100	1.000	0.000	473.500	473.400

00L-10 HOGAN LAKE DAM

X1	40150.000	0.000	0.000	0.000	20.000	20.000	20.000	0.000	0.100	0.000
X2	0.000	0.000	1.000	475.000	485.700	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	487.900	485.700	0.000
BT	17.000	585.000	506.000	0.000	685.000	494.500	0.000	715.000	491.300	0.000
BT	779.000	489.100	0.000	810.000	489.100	0.000	835.000	488.600	0.000	860.000
BT	488.100	0.000	885.000	487.900	0.000	1035.000	488.000	0.000	1060.000	489.000
BT	0.000	1085.000	489.400	0.000	1118.000	485.700	0.000	1128.000	485.700	0.000
BT	1150.000	486.300	0.000	1172.000	488.800	0.000	1195.000	492.900	0.000	1285.000
BT	505.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

X1	40250.000	12.000	1000.000	1020.000	100.000	100.000	100.000	0.000	4.500	0.000
GR	500.000	585.000	491.300	715.000	478.300	815.000	471.900	915.000	471.400	1000.000
GR	469.500	1005.000	469.400	1004.000	469.500	1012.000	472.200	1020.000	480.000	1115.000
GR	492.400	1215.000	500.000	1285.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000
ET	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.000

X1	41000.000	13.000	1000.000	1016.000	750.000	750.000	750.000	0.000	0.000	0.000
GR	500.000	730.000	490.000	820.000	487.000	870.000	481.000	960.000	479.500	1000.000
GR	477.800	1002.000	477.800	1009.000	478.300	1012.000	480.000	1016.000	481.000	1140.000
GR	488.000	1190.000	490.000	1240.000	500.000	1320.000	0.000	0.000	0.000	0.000

X1	41900.000	14.000	1000.000	1014.000	900.000	900.000	900.000	0.000	0.000	0.000
GR	510.000	560.000	500.000	690.000	490.000	850.000	487.000	860.000	485.000	985.000
GR	483.500	1000.000	482.200	1002.000	482.200	1007.000	482.700	1010.000	485.000	1014.000
GR	487.000	1120.000	490.000	1210.000	500.000	1280.000	510.000	1380.000	0.000	0.000

X1	42300.000	0.000	0.000	0.000	400.000	400.000	400.000	0.000	2.100	0.000
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X1	42700.000	11.000	1000.000	1012.000	490.000	400.000	400.000	0.000	0.000	0.000
GR	510.000	650.000	500.000	889.300	490.000	950.000	497.700	1090.000	486.500	1002.000
GR	486.500	1007.000	486.900	1010.000	489.200	1012.000	490.000	1150.000	505.000	1300.000
GR	510.000	1400.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.300	0.500	0.000	0.000	0.000	0.000	0.000

X1	42845.000	16.000	1000.000	1012.000	945.000	945.000	945.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GR	512.100	586.000	507.500	660.000	506.600	686.000	500.200	715.000	504.400	762.000
GR	504.700	786.000	494.000	886.000	490.000	985.000	488.800	1000.000	487.600	1002.000
GR	487.600	1007.000	488.000	1010.000	490.300	1012.000	493.300	1080.000	506.000	1186.000
GR	511.300	1254.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SB	0.000	1.600	2.800	0.000	5.200	0.100	33.000	0.000	487.600	487.600

OBL-11 SR-1009

X1	42895.000	0.000	0.000	0.000	50.000	50.000	50.000	0.000	0.000	0.000
X2	0.000	0.000	1.000	494.100	494.700	0.000	0.000	0.000	0.000	0.000
X3	10.000	0.000	0.000	0.000	0.000	0.000	0.000	495.200	494.700	0.000
BT	13.000	586.000	512.100	0.000	660.000	507.500	0.000	686.000	506.600	0.000
BT	715.000	506.200	0.000	762.000	504.400	0.000	786.000	504.700	0.000	855.000
BT	498.800	0.000	955.000	495.400	0.000	1004.000	495.200	0.000	1055.000	494.700
BT	0.000	1098.000	494.800	0.000	1186.000	506.000	0.000	1254.000	511.300	0.000

X1	42980.000	16.000	1000.000	1012.000	85.000	85.000	85.000	0.000	0.500	0.000
GR	513.000	586.000	508.400	660.800	507.500	686.000	507.100	715.000	505.300	762.000
GR	505.600	786.000	494.900	886.000	490.900	986.000	489.700	1000.000	488.500	1052.000
GR	488.500	1007.000	488.900	1010.000	491.200	1012.000	494.200	1086.000	506.800	1186.000
GR	512.200	1254.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
NC	0.000	0.000	0.000	0.100	0.300	0.000	0.000	0.000	0.000	0.000

OBL-12 VALLEY

X1	43090.000	0.000	0.000	0.000	110.000	110.000	110.000	0.000	0.500	0.000
EJ	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR-CORR-- 01,02
 MODIFICATION -- 50,51,52,53

T1 ORANGE CO FIS
 T2 50-YR-NATURAL
 T3 HOLIN CREEK

J1	IGHECK	ING	NINV	IDIR	STRT	METRIC	HVING	0	WSEL	F0
	0.	3.	0.	0.	0.000000	0.00	0.0	0.	451.360	0.000
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.000	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR CORR - 01,02
 MODIFICATION - 50,51,52,53

T1 ORANGE CD FIS
 T2 100-YR NATURAL
 T3 BOLIN CREEK

J1	ICHECK	IND	NINV	IDIR	STAT	HEVIC	HVINS	Q	WSEL	FW
	0.	4.	0.	0.	0.000000	0.00	0.0	0.	432.200	0.000
J2	NPROF	IPLOT	PRFVS	XSECV	XSLCD	FN	ALLDC	IRW	CHNIM	TRACE
	3.000	0.000	-1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FILED
 NOV 21 1977
 FEDERAL BUREAU OF INVESTIGATION
 U.S. DEPARTMENT OF JUSTICE
 WASHINGTON, D.C. 20535

 HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
 ERROR-CORR - 01,02
 MODIFICATION - 50,51,52,53

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

BOLIN CREEK

SUMMARY PRINTOUT

SECNO	CWSEL	EG	ELMIN	ELLC
27620.000	430.30	430.35	423.60	0.00
27620.000	431.30	431.39	423.60	0.00
27620.000	432.20	432.27	423.60	0.00
27620.000	434.10	434.10	423.60	0.00
28000.000	431.04	431.09	424.30	0.00
28000.000	432.35	432.42	424.30	0.00
28000.000	433.04	433.11	424.30	0.00
28000.000	434.86	434.94	424.30	0.00
28850.000	433.55	433.90	426.70	0.00
28850.000	435.39	435.55	426.70	0.00
28850.000	435.91	436.59	426.70	0.00
28850.000	437.61	438.61	426.70	0.00
30390.000	437.89	437.93	430.80	0.00
30390.000	439.93	439.98	430.80	0.00
30390.000	440.67	440.73	430.80	0.00
30390.000	442.91	442.96	430.80	0.00
31120.000	439.24	439.35	432.80	0.00
31120.000	441.08	441.17	432.80	0.00
31120.000	441.77	441.86	432.80	0.00
31120.000	443.94	444.04	432.80	0.00
31500.000	440.50	440.66	433.80	0.00
31500.000	442.18	442.43	433.80	0.00
31500.000	442.81	443.10	433.80	0.00
31500.000	444.82	445.15	433.80	0.00
31600.000	440.90	441.06	434.10	0.00
31600.000	442.65	442.88	434.10	0.00
31600.000	443.30	443.56	434.10	0.00
31600.000	445.28	445.59	434.10	0.00
31680.000	441.15	441.88	434.40	0.00
31680.000	442.77	444.12	434.40	0.00
31680.000	443.35	444.96	434.40	0.00
31680.000	445.02	447.31	434.40	0.00

SECNO	CWSEL	EG	ELMIN	ELLC
31700.000	441.26	441.49	434.50	449.40
31700.000	444.06	444.87	434.50	449.40
31700.000	445.06	445.93	434.50	449.40
* 31700.000	447.61	448.77	434.50	449.40
31760.000	441.95	442.59	434.10	0.00
31760.000	444.55	445.58	434.10	0.00
31760.000	445.53	446.66	434.10	0.00
31760.000	448.12	449.47	434.10	0.00
31900.000	442.95	443.10	434.60	0.00
31900.000	445.96	446.12	434.60	0.00
31900.000	447.04	447.21	434.60	0.00
31900.000	449.82	450.01	434.60	0.00
32200.000	443.63	443.82	435.70	0.00
32200.000	446.53	446.74	435.70	0.00
32200.000	447.59	447.80	435.70	0.00
32200.000	450.34	450.57	435.70	0.00
33000.000	445.21	445.25	438.30	0.00
33000.000	447.79	447.83	438.30	0.00
33000.000	448.77	448.81	438.30	0.00
33000.000	451.41	451.45	438.30	0.00
33500.000	445.98	446.07	440.00	0.00
33500.000	448.31	448.38	440.00	0.00
33500.000	449.24	449.31	440.00	0.00
33500.000	451.78	451.84	440.00	0.00
34000.000	447.99	449.06	442.00	0.00
* 34000.000	450.21	451.16	442.00	0.00
* 34000.000	450.58	451.61	442.00	0.00
34000.000	452.48	453.19	442.00	0.00
34580.000	452.31	452.49	444.20	0.00
34580.000	454.31	454.56	444.20	0.00
34580.000	454.97	455.26	444.20	0.00
34580.000	456.52	456.99	444.20	0.00
35000.000	453.52	453.78	442.20	0.00
35000.000	455.68	456.01	442.20	0.00
35000.000	456.43	456.81	442.20	0.00
35000.000	458.44	458.89	442.20	0.00
37110.000	462.13	462.30	455.80	0.00
37110.000	463.92	464.07	455.80	0.00
37110.000	464.64	464.79	455.80	0.00
37110.000	466.73	466.90	455.80	0.00
38230.000	467.00	467.30	462.30	0.00
38230.000	468.24	468.35	462.30	0.00
38230.000	468.70	468.81	462.30	0.00
38230.000	470.32	470.45	462.30	0.00

FEDERAL BUREAU OF INVESTIGATION
 U.S. DEPARTMENT OF JUSTICE
 WASHINGTON, D.C. 20535

SECNO	CWSEL	EG	ELMIN	ELLC
42300.000	488.31	488.57	484.30	0.00
42300.000	489.55	489.72	484.30	0.00
42300.000	489.94	490.10	484.30	0.00
42300.000	491.03	491.19	484.30	0.00
42700.000	490.60	490.77	486.50	0.00
42700.000	491.70	491.81	486.50	0.00
42700.000	492.05	492.17	486.50	0.00
42700.000	493.09	493.25	486.50	0.00
42845.000	493.00	493.07	487.60	0.00
42845.000	494.45	494.53	487.60	0.00
42845.000	494.94	495.02	487.60	0.00
42845.000	496.32	496.43	487.60	0.00
* 42895.000	495.15	495.18	487.60	494.10
42895.000	496.20	496.22	487.60	494.10
42895.000	496.50	496.53	487.60	494.10
42895.000	497.36	497.42	487.60	494.10
42980.000	495.22	495.23	488.00	0.00
42980.000	496.25	496.27	488.00	0.00
42980.000	496.56	496.59	488.00	0.00
42980.000	497.47	497.54	488.00	0.00
43090.000	495.25	495.26	488.50	0.00
43090.000	496.32	496.36	488.50	0.00
43090.000	496.65	496.70	488.50	0.00
43090.000	497.63	497.71	488.50	0.00

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BOLIN CREEK

SUMMARY PRINTOUT

SECNO	CWSEL	QLOB	QCH	QROB	VLOB	VCH	VROB
27620.000	430.30	920.09	352.16	137.75	1.09	3.14	0.69
27620.000	431.30	1949.05	582.95	438.00	1.66	4.41	1.16
27620.000	432.20	2403.52	616.36	680.12	1.62	4.11	1.23
27620.000	434.10	4076.22	839.95	1483.82	1.86	4.47	1.55
28000.000	431.04	921.17	347.24	141.58	1.07	3.07	0.68
28000.000	432.35	1941.69	543.91	467.46	1.50	3.91	1.09
28000.000	433.04	2399.55	602.87	697.58	1.56	3.94	1.20
28000.000	434.86	4073.89	834.52	1491.59	1.84	4.41	1.54
28850.000	433.55	419.31	760.43	230.26	2.07	6.20	2.00
28850.000	435.39	1048.82	1326.19	594.98	2.96	8.32	2.84
28850.000	435.91	1347.78	1581.63	770.59	3.35	9.32	3.20
28850.000	437.61	2514.55	2414.77	1470.68	4.34	11.86	4.15
30390.000	437.89	35.24	362.10	422.66	0.70	2.88	0.91
30390.000	439.93	102.98	548.70	2148.23	0.88	3.30	1.22
30390.000	440.67	147.73	625.75	2706.52	0.99	3.45	1.32
30390.000	442.91	341.49	894.14	4764.36	1.25	3.95	1.62
31120.000	439.24	319.29	452.14	518.56	1.19	4.01	1.17
31120.000	441.08	786.33	637.76	1245.41	1.44	4.27	1.50
31120.000	441.77	1015.75	712.62	1571.62	1.51	4.37	1.60
31120.000	443.94	1950.80	989.01	2810.18	1.75	4.79	1.91
31500.000	440.50	332.29	557.86	339.85	1.52	4.81	1.51
31500.000	442.18	828.55	921.19	850.25	2.19	6.15	2.21
31500.000	442.81	1071.28	1072.34	1096.38	2.41	6.60	2.44
31500.000	444.82	1896.31	1490.39	1913.30	2.82	7.35	2.90
31600.000	440.90	337.32	547.38	341.30	1.49	4.63	1.47
31600.000	442.65	837.46	903.66	658.89	2.12	5.90	2.14
31600.000	443.30	1081.33	1053.13	1105.54	2.33	6.34	2.36
31600.000	445.28	1905.03	1475.34	1419.62	2.76	7.17	2.83
31680.000	441.15	0.00	1230.00	0.00	0.00	6.88	0.00
31680.000	442.77	0.00	2600.00	0.00	0.00	9.33	0.00
31680.000	443.35	0.00	3240.00	0.00	0.00	10.18	0.00
31680.000	445.02	0.00	5300.00	0.00	0.00	12.14	0.00
31700.000	441.26	0.00	1230.00	0.00	0.00	6.86	0.00
* 31700.000	444.06	0.00	2600.00	0.00	0.00	7.19	0.00
* 31700.000	445.06	0.00	3240.00	0.00	0.00	7.50	0.00
* 31700.000	447.61	0.00	5300.00	0.00	0.00	8.64	0.00
31760.000	441.95	116.58	1062.46	50.96	1.69	6.87	1.67
31760.000	444.55	431.70	1948.59	219.71	2.53	9.31	2.43
31760.000	445.53	613.83	2301.07	325.10	2.79	10.01	2.67
31760.000	448.12	1284.09	3281.99	733.93	3.35	11.55	3.22
31900.000	442.95	347.98	624.24	257.78	1.30	4.12	1.39
31900.000	445.56	950.36	1013.53	636.10	1.61	4.79	1.77
31900.000	447.04	1253.75	1173.78	812.47	1.70	5.03	1.89
31900.000	449.82	2285.81	1637.54	1376.66	1.94	5.67	2.17

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 Model No. 1000
 Price \$199.00

SECNO CWSEL QLOB GCH QROB VLOB VCH VROB

42895.000	495.15	0.00	162.94	197.06	0.00	1.90	0.75
42895.000	496.20	397.69	202.37	249.94	0.74	2.06	0.70
42895.000	496.50	509.84	247.14	323.01	0.88	2.43	0.83
42895.000	497.36	925.47	396.74	597.80	1.32	3.54	1.25
42980.000	495.22	157.97	108.15	93.88	0.44	1.32	0.40
42980.000	496.25	392.73	213.09	244.17	0.80	2.27	0.75
42980.000	496.56	504.48	258.80	315.72	0.95	2.65	0.89
42980.000	497.47	919.47	409.83	598.68	1.40	3.77	1.32
43090.000	495.25	152.37	119.90	87.73	0.50	1.58	0.46
43090.000	496.32	385.63	228.45	235.92	0.89	2.57	0.83
43090.000	496.55	497.00	275.10	307.90	1.04	2.96	0.98
43090.000	497.63	911.79	427.06	581.15	1.50	4.08	1.42

215011000 Model Business Form 10

215011000

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
32200.000	443.63	917.14	1000.00	1020.00	1070.11	152.98
32200.000	446.53	879.46	1000.00	1020.00	1081.70	202.24
32200.000	447.59	865.73	1000.00	1020.00	1085.93	220.21
32200.000	450.34	830.02	1000.00	1020.00	1096.92	266.90
33000.000	445.21	924.01	1000.00	1020.00	1280.36	356.35
33000.000	447.79	911.10	1000.00	1020.00	1350.08	438.98
33000.000	448.77	906.15	1000.00	1020.00	1376.79	470.64
33000.000	451.41	892.98	1000.00	1020.00	1447.88	554.90
33500.000	445.98	937.88	1000.00	1020.00	1256.97	319.08
33500.000	448.31	916.96	1000.00	1020.00	1316.44	401.49
33500.000	449.24	912.30	1000.00	1020.00	1343.60	431.30
33500.000	451.78	899.62	1000.00	1020.00	1412.04	512.42
34000.000	447.99	995.36	995.00	1026.00	1054.33	58.96
34000.000	450.21	799.89	995.00	1026.00	1091.91	292.01
34000.000	450.58	799.71	995.00	1026.00	1095.19	295.48
34000.000	452.48	796.76	995.00	1026.00	1112.36	313.60
34580.000	452.31	989.77	1000.00	1031.00	1148.17	150.40
34580.000	454.31	979.01	1000.00	1031.00	1181.50	202.49
34580.000	454.97	975.45	1000.00	1031.00	1186.31	210.85
34580.000	456.52	967.12	1000.00	1031.00	1197.58	230.45
35000.000	453.52	912.56	995.00	1026.00	1050.05	137.49
35000.000	455.68	881.66	995.00	1026.00	1066.73	185.06
35000.000	456.43	870.97	995.00	1026.00	1072.50	201.53
35000.000	458.44	842.34	995.00	1026.00	1087.94	245.60
37110.000	462.13	930.25	1000.00	1014.00	1118.89	188.64
37110.000	463.92	922.27	1000.00	1014.00	1129.12	206.85
37110.000	464.64	919.08	1000.00	1014.00	1133.20	214.12
37110.000	466.73	905.81	1000.00	1014.00	1145.19	239.38
38230.000	467.00	962.52	1000.00	1016.00	1159.08	197.46
38230.000	468.24	953.21	1000.00	1016.00	1172.38	219.17
38230.000	468.70	949.75	1000.00	1016.00	1177.00	227.25
38230.000	470.32	938.09	1000.00	1016.00	1192.87	254.78
39150.000	471.62	897.43	1000.00	1020.00	1029.10	131.67
39150.000	472.83	878.61	1000.00	1020.00	1042.41	163.81
39150.000	473.24	872.23	1000.00	1020.00	1046.93	174.70
39150.000	474.48	852.74	1000.00	1020.00	1060.70	207.97
39210.000	472.41	932.35	1000.00	1020.00	1033.33	100.98
39210.000	473.45	918.97	1000.00	1020.00	1044.86	125.90
39210.000	473.84	913.91	1000.00	1020.00	1049.22	135.30
39210.000	475.01	898.97	1000.00	1020.00	1062.09	163.12
39230.000	473.12	925.74	1000.00	1020.00	1039.03	113.29
39230.000	474.06	913.61	1000.00	1020.00	1049.48	135.87
39230.000	474.41	909.19	1000.00	1020.00	1053.29	144.10
39230.000	475.54	894.71	1000.00	1020.00	1065.76	171.05

SECNO	CWSEL	SSTA	STCHL	STCHR	ENDST	TOPWID
39300.000	473.57	882.65	1000.00	1020.00	1039.56	156.91
39300.000	474.73	864.49	1000.00	1020.00	1052.40	187.91
39300.000	475.14	858.20	1000.00	1020.00	1056.84	198.65
39300.000	476.43	837.99	1000.00	1020.00	1071.13	233.14
39370.000	473.73	886.50	1000.00	1020.00	1036.84	150.34
39370.000	474.96	867.27	1000.00	1020.00	1050.43	183.17
39370.000	475.39	860.52	1000.00	1020.00	1055.21	194.69
39370.000	476.72	839.71	1000.00	1020.00	1069.91	230.20
40000.000	476.21	897.56	1000.00	1020.00	1029.00	131.42
40000.000	477.61	875.60	1000.00	1020.00	1044.54	168.95
40000.000	478.10	868.07	1000.00	1020.00	1049.86	181.79
40000.000	479.54	845.63	1000.00	1020.00	1065.73	220.10
40130.000	477.04	897.84	1000.00	1020.00	1029.29	131.45
40130.000	478.30	878.82	1000.00	1020.00	1043.25	164.43
40130.000	478.77	871.81	1000.00	1020.00	1048.40	176.59
40130.000	480.16	850.98	1000.00	1020.00	1063.69	212.72
40150.000	487.84	1000.00	1000.00	1020.00	1162.74	162.74
40150.000	488.54	736.90	1000.00	1020.00	1168.88	431.98
40150.000	488.74	735.38	1000.00	1020.00	1170.63	435.25
40150.000	489.30	731.06	1000.00	1020.00	1173.29	442.23
40250.000	487.85	776.16	1000.00	1020.00	1136.98	360.82
40250.000	488.55	770.80	1000.00	1020.00	1142.98	372.18
40250.000	488.74	769.27	1000.00	1020.00	1144.70	375.42
40250.000	489.31	764.95	1000.00	1020.00	1149.54	384.59
41000.000	487.85	855.60	1000.00	1016.00	1189.03	333.42
41000.000	488.57	844.01	1000.00	1016.00	1203.99	359.98
41000.000	488.78	840.47	1000.00	1016.00	1209.30	368.83
41000.000	489.39	830.10	1000.00	1016.00	1224.85	394.75
41900.000	487.89	851.13	1000.00	1014.00	1146.60	295.47
41900.000	488.70	843.01	1000.00	1014.00	1170.98	327.97
41900.000	488.97	840.32	1000.00	1014.00	1179.03	338.71
41900.000	489.82	831.80	1000.00	1014.00	1204.60	372.80
42300.000	488.31	909.72	1000.00	1014.00	1077.84	168.12
42300.000	489.55	855.58	1000.00	1014.00	1133.27	277.70
42300.000	489.94	851.64	1000.00	1014.00	1145.09	293.45
42300.000	491.03	840.65	1000.00	1014.00	1178.04	337.39
42700.000	490.68	945.22	1000.00	1012.00	1141.61	196.39
42700.000	491.70	938.08	1000.00	1012.00	1158.95	220.87
42700.000	492.05	935.66	1000.00	1012.00	1164.83	229.17
42700.000	493.09	928.40	1000.00	1012.00	1182.46	254.06
42845.000	493.00	910.89	1000.00	1012.00	1076.70	167.81
42845.000	494.45	881.70	1000.00	1012.00	1095.14	213.44
42845.000	494.94	877.20	1000.00	1012.00	1098.93	221.73
42845.000	496.32	864.30	1000.00	1012.00	1109.80	245.50

SPECIAL LOW WATER MEASUREMENT POINT
 DATE: 12/01/11
 TIME: 11:00 AM
 STATION: 42845
 TIDE GAUGE: 42845
 SURVEYOR: [illegible]
 PROJECT: [illegible]

SECNO	CWSEL	SSTA	STCHL	SICHR	ENDST	TOPWID
42895.000	495.15	1000.00	1000.00	1012.00	1100.60	100.60
42895.000	496.20	865.42	1000.00	1012.00	1108.65	243.43
42895.000	496.50	862.66	1000.00	1012.00	1111.18	248.52
42895.000	497.36	854.59	1000.00	1012.00	1117.97	263.38
42980.000	495.22	878.38	1000.00	1012.00	1098.03	219.65
42980.000	496.25	868.75	1000.00	1012.00	1106.21	237.46
42980.000	496.56	865.86	1000.00	1012.00	1108.66	242.80
42980.000	497.47	857.34	1000.00	1012.00	1115.89	258.56
43090.000	495.25	882.76	1000.00	1012.00	1094.31	211.55
43090.000	496.32	872.79	1000.00	1012.00	1102.77	229.99
43090.000	496.65	869.71	1000.00	1012.00	1105.39	235.67
43090.000	497.63	860.57	1000.00	1012.00	1113.15	252.58

FIELD (10) Home Based, Santa Fe
 JLD 11 11 6
 STATION: Santa Fe, N.M.

SECNO	XLCH	ELTRD	ELLC	ELMIN	O	CWSEL	CRWS	EG	10K*9	VCH	AREA	.01K
32200.000	300.00	0.00	0.00	435.70	1230.00	443.63	0.00	443.82	27.40	4.58	537.30	234.97
32200.000	300.00	0.00	0.00	435.70	2600.00	446.53	0.00	446.74	22.83	5.25	1052.02	544.09
32200.000	300.00	0.00	0.00	435.70	3240.00	447.59	0.00	447.80	21.82	5.48	1275.20	693.41
32200.000	300.00	0.00	0.00	435.70	5300.00	450.34	0.00	450.57	20.09	6.10	1944.21	1102.54
33000.000	860.00	0.00	0.00	438.30	1230.00	445.21	0.00	445.25	10.92	2.70	1144.55	372.20
33000.000	860.00	0.00	0.00	438.30	2600.00	447.79	0.00	447.83	7.83	2.85	2141.49	929.07
33000.000	860.00	0.00	0.00	438.30	3240.00	448.77	0.00	448.81	7.15	2.92	2591.41	1210.90
33000.000	860.00	0.00	0.00	438.30	5300.00	451.41	0.00	451.45	5.96	3.11	3941.61	2170.92
33500.000	500.00	0.00	0.00	440.00	1230.00	445.98	0.00	446.07	26.14	3.77	803.17	240.60
33500.000	500.00	0.00	0.00	440.00	2600.00	448.31	0.00	448.38	16.26	3.75	1649.05	644.83
33500.000	500.00	0.00	0.00	440.00	3240.00	449.24	0.00	449.31	13.98	3.74	2036.97	866.47
33500.000	500.00	0.00	0.00	440.00	5300.00	451.78	0.00	451.84	10.34	3.82	3233.09	1643.95
34000.000	500.00	0.00	0.00	442.00	1130.00	447.99	0.00	449.06	196.24	8.41	152.96	80.66
34000.000	500.00	0.00	0.00	442.00	2410.00	450.21	450.21	451.16	124.92	9.00	544.88	211.43
34000.000	500.00	0.00	0.00	442.00	3000.00	450.58	450.58	451.61	141.49	9.75	652.00	252.21
34000.000	500.00	0.00	0.00	442.00	5200.00	452.48	0.00	453.19	93.32	9.34	1233.04	538.30
34580.000	580.00	0.00	0.00	444.20	1130.00	452.31	0.00	452.44	27.05	3.97	491.53	217.27
34580.000	580.00	0.00	0.00	444.20	2410.00	454.31	0.00	454.56	32.22	5.22	856.52	424.56
34580.000	580.00	0.00	0.00	444.20	3000.00	454.97	0.00	455.26	34.32	5.67	993.17	512.09
34580.000	580.00	0.00	0.00	444.20	5200.00	456.52	0.00	456.99	47.80	7.45	1335.11	753.13
35000.000	420.00	0.00	0.00	442.20	950.00	453.52	0.00	453.78	34.80	4.33	308.19	161.05
35000.000	420.00	0.00	0.00	442.20	3000.00	455.68	0.00	456.01	36.44	5.38	657.03	331.32
35000.000	420.00	0.00	0.00	442.20	2550.00	456.43	0.00	456.80	38.46	5.84	801.73	411.16
35000.000	420.00	0.00	0.00	442.20	4450.00	458.44	0.00	458.89	42.66	7.00	1249.75	681.35
37110.000	2110.00	0.00	0.00	455.80	740.00	462.13	0.00	462.30	49.63	4.52	367.95	165.05
37110.000	2110.00	0.00	0.00	455.80	1610.00	463.92	0.00	464.07	40.35	4.88	721.69	253.45
37110.000	2110.00	0.00	0.00	455.80	2010.00	464.64	0.00	464.79	36.90	4.95	872.82	330.89
37110.000	2110.00	0.00	0.00	455.80	3550.00	466.73	0.00	466.90	32.81	5.43	1347.09	619.77
38230.000	1120.00	0.00	0.00	462.30	420.00	467.00	0.00	467.10	33.63	3.36	295.95	72.43
38230.000	1120.00	0.00	0.00	462.30	970.00	468.24	0.00	468.35	34.85	4.08	554.37	164.31
38230.000	1120.00	0.00	0.00	462.30	1220.00	468.70	0.00	468.81	34.40	4.28	657.40	208.00
38230.000	1120.00	0.00	0.00	462.30	2200.00	470.32	0.00	470.45	29.89	4.69	1048.08	402.39
39150.000	920.00	0.00	0.00	468.00	420.00	471.62	0.00	471.81	86.17	4.41	185.72	45.24
39150.000	920.00	0.00	0.00	468.00	970.00	472.83	0.00	473.07	81.10	5.49	363.72	107.71
39150.000	920.00	0.00	0.00	468.00	1220.00	473.24	0.00	473.50	81.28	5.82	432.86	135.32
39150.000	920.00	0.00	0.00	468.00	2200.00	474.48	0.00	474.82	83.50	6.47	671.51	240.76
39210.000	60.00	0.00	0.00	470.50	420.00	472.41	0.00	472.86	410.23	6.95	109.64	20.74
39210.000	60.00	0.00	0.00	470.50	970.00	473.45	0.00	473.98	280.64	7.99	228.06	57.90
39210.000	60.00	0.00	0.00	470.50	1220.00	473.84	0.00	474.39	253.23	8.32	279.54	76.67
39210.000	60.00	0.00	0.00	470.50	2200.00	475.01	0.00	475.69	221.22	9.64	453.42	147.91
39230.000	20.00	0.00	0.00	470.70	420.00	473.12	0.00	473.31	129.88	4.70	164.90	36.85
39230.000	20.00	0.00	0.00	470.70	970.00	474.06	0.00	474.40	155.12	6.55	282.76	77.88
39230.000	20.00	0.00	0.00	470.70	1220.00	474.41	0.00	474.80	159.49	7.12	331.00	96.60
39230.000	20.00	0.00	0.00	470.70	2200.00	475.54	0.00	476.08	162.25	8.68	502.96	172.72

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CMSGL	CRIMS	EG	10K*S	VCH	AREA	.01K
39300.000	70.00	0.00	0.00	469.00	420.00	473.57	0.00	473.63	20.97	2.64	322.24	91.94
39300.000	70.00	0.00	0.00	469.00	970.00	474.73	0.00	474.84	31.32	3.88	522.65	173.31
39300.000	70.00	0.00	0.00	464.00	1220.00	475.14	0.00	475.27	34.43	4.29	604.46	167.93
39300.000	70.00	0.00	0.00	464.00	2200.00	476.43	0.00	476.62	41.20	5.43	879.65	242.74
39370.000	70.00	0.00	0.00	469.40	420.00	473.73	0.00	473.80	24.90	2.97	284.40	78.13
39370.000	70.00	0.00	0.00	469.40	970.00	474.96	0.00	475.09	37.17	4.13	489.67	159.10
39370.000	70.00	0.00	0.00	469.40	1220.00	475.39	0.00	475.54	39.23	4.49	571.28	194.78
39370.000	70.00	0.00	0.00	469.40	2200.00	476.72	0.00	476.93	44.49	5.58	854.15	229.83
40000.000	630.00	0.00	0.00	472.60	360.00	476.21	0.00	476.35	64.37	3.80	184.50	44.87
40000.000	630.00	0.00	0.00	472.60	850.00	477.61	0.00	477.77	49.90	4.41	395.79	120.33
40000.000	630.00	0.00	0.00	472.60	1080.00	478.10	0.00	478.26	48.50	4.68	480.21	155.08
40000.000	630.00	0.00	0.00	472.60	1920.00	479.54	0.00	479.73	44.62	5.27	768.85	287.44
40130.000	130.00	0.00	0.00	473.40	360.00	477.04	0.00	477.19	63.14	3.81	184.00	45.31
40130.000	130.00	0.00	0.00	473.40	850.00	478.30	0.00	478.48	58.36	4.69	371.00	111.27
40130.000	130.00	0.00	0.00	473.40	1080.00	478.77	0.00	478.96	56.69	4.97	450.50	143.44
40130.000	130.00	0.00	0.00	473.40	1920.00	480.16	0.00	480.38	52.41	5.71	720.02	2265.21
40150.000	20.00	485.70	475.00	473.50	360.00	487.84	0.00	487.85	0.34	0.61	1045.22	621.52
40150.000	20.00	485.70	475.00	473.50	850.00	488.54	0.00	488.55	0.17	0.58	3420.65	2062.34
40150.000	20.00	485.70	475.00	473.50	1080.00	488.74	0.00	488.74	0.26	0.72	3506.83	2135.75
40150.000	20.00	485.70	475.00	473.50	1920.00	489.30	0.00	489.31	0.67	1.19	3753.74	2350.98
40250.000	100.00	0.00	0.00	473.90	360.00	487.85	0.00	487.85	0.04	0.28	2858.02	1718.47
40250.000	100.00	0.00	0.00	473.90	850.00	488.55	0.00	488.55	0.19	0.61	3113.20	1930.18
40250.000	100.00	0.00	0.00	473.90	1080.00	488.74	0.00	488.75	0.29	0.76	3187.50	2003.40
40250.000	100.00	0.00	0.00	473.90	1920.00	489.31	0.00	489.31	0.77	1.26	3401.15	2193.90
41000.000	750.00	0.00	0.00	477.80	360.00	487.85	0.00	487.86	0.16	0.43	1893.06	891.52
41000.000	750.00	0.00	0.00	477.80	850.00	488.57	0.00	488.57	0.65	0.90	2133.55	1056.24
41000.000	750.00	0.00	0.00	477.80	1080.00	488.78	0.00	488.78	0.95	1.11	2210.98	1109.75
41000.000	750.00	0.00	0.00	477.80	1920.00	489.39	0.00	489.41	2.27	1.78	2448.49	1274.94
41900.000	900.00	0.00	0.00	482.20	360.00	487.89	0.00	487.90	5.85	1.68	577.19	148.90
41900.000	900.00	0.00	0.00	482.20	850.00	488.70	0.00	488.74	12.37	2.71	830.33	241.72
41900.000	900.00	0.00	0.00	482.20	1080.00	488.97	0.00	489.02	15.14	3.08	919.87	277.60
41900.000	900.00	0.00	0.00	482.20	1920.00	489.82	0.00	489.90	22.05	4.06	1223.07	408.88
42300.000	400.00	0.00	0.00	484.30	360.00	488.31	0.00	488.57	88.34	5.00	160.52	38.50
42300.000	400.00	0.00	0.00	484.30	850.00	489.55	0.00	489.72	61.83	5.15	449.76	108.10
42300.000	400.00	0.00	0.00	484.30	1080.00	489.94	0.00	490.10	56.32	5.19	562.73	143.91
42300.000	400.00	0.00	0.00	484.30	1920.00	491.03	0.00	491.19	49.45	5.55	908.71	273.05
42700.000	400.00	0.00	0.00	486.50	360.00	490.68	0.00	490.77	36.90	3.39	270.29	59.26
42700.000	400.00	0.00	0.00	486.50	850.00	491.70	0.00	491.81	44.48	4.36	483.16	127.45
42700.000	400.00	0.00	0.00	486.50	1080.00	492.05	0.00	492.17	47.59	4.73	560.92	156.55
42700.000	400.00	0.00	0.00	486.50	1920.00	493.09	0.00	493.25	53.71	5.68	811.56	261.99
42845.000	945.00	0.00	0.00	487.60	360.00	493.00	0.00	493.07	17.15	2.78	313.42	86.92
42845.000	945.00	0.00	0.00	487.60	850.00	494.45	0.00	494.53	19.95	3.56	597.46	190.30
42845.000	945.00	0.00	0.00	487.60	1080.00	494.94	0.00	495.02	20.67	3.00	702.27	237.57
42845.000	945.00	0.00	0.00	487.60	1920.00	496.32	0.00	496.43	22.80	4.51	1024.65	402.13

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SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
39300.000	420.00	473.57	0.00	0.44	0.00	156.91	70.00
39300.000	970.00	474.73	1.16	0.67	0.00	187.91	70.00
39300.000	1220.00	475.14	0.41	0.74	0.00	198.65	70.00
39300.000	2200.00	476.43	1.29	0.89	0.00	233.14	70.00
39370.000	420.00	473.73	0.00	0.16	0.00	150.34	70.00
39370.000	970.00	474.96	1.23	0.23	0.00	183.17	70.00
39370.000	1220.00	475.39	0.43	0.25	0.00	194.69	70.00
39370.000	2200.00	476.72	1.33	0.29	0.00	230.20	70.00
40000.000	360.00	476.21	0.00	2.49	0.00	131.42	630.00
40000.000	850.00	477.61	1.40	2.65	0.00	168.95	630.00
40000.000	1080.00	478.10	0.49	2.71	0.00	181.79	630.00
40000.000	1920.00	479.54	1.44	2.82	0.00	220.10	630.00
40130.000	360.00	477.04	0.00	0.83	0.00	131.45	130.00
40130.000	850.00	478.30	1.26	0.69	0.00	164.43	130.00
40130.000	1080.00	478.77	0.47	0.67	0.00	176.59	130.00
40130.000	1920.00	480.16	1.38	0.62	0.00	212.72	130.00
40150.000	360.00	487.84	0.00	10.80	0.00	162.74	20.00
40150.000	850.00	488.54	0.70	10.24	0.00	431.98	20.00
40150.000	1080.00	488.74	0.20	9.97	0.00	435.25	20.00
40150.000	1920.00	489.30	0.56	9.14	0.00	442.23	20.00
40250.000	360.00	487.85	0.00	0.00	0.00	360.82	100.00
40250.000	850.00	488.55	0.70	0.00	0.00	372.18	100.00
40250.000	1080.00	488.74	0.20	0.00	0.00	375.42	100.00
40250.000	1920.00	489.31	0.56	0.01	0.00	384.59	100.00
41000.000	360.00	487.85	0.00	0.01	0.00	333.42	750.00
41000.000	850.00	488.57	0.71	0.02	0.00	359.98	750.00
41000.000	1080.00	488.76	0.21	0.03	0.00	368.83	750.00
41000.000	1920.00	489.39	0.62	0.09	0.00	394.75	750.00
41900.000	360.00	487.89	0.00	0.03	0.00	295.47	900.00
41900.000	850.00	488.70	0.81	0.13	0.00	327.97	900.00
41900.000	1080.00	488.97	0.27	0.19	0.00	338.71	900.00
41900.000	1920.00	489.82	0.85	0.43	0.00	372.80	900.00
42300.000	360.00	488.31	0.00	0.42	0.00	168.12	400.00
42300.000	850.00	489.55	1.24	0.85	0.00	277.70	400.00
42300.000	1080.00	489.94	0.39	0.97	0.00	293.45	400.00
42300.000	1920.00	491.03	1.10	1.21	0.00	337.39	400.00
42700.000	360.00	490.68	0.00	2.38	0.00	196.39	400.00
42700.000	850.00	491.70	1.02	2.16	0.00	220.87	400.00
42700.000	1080.00	492.05	0.34	2.11	0.00	229.17	400.00
42700.000	1920.00	493.09	1.04	2.06	0.00	254.06	400.00
42845.000	360.00	493.00	0.00	2.32	0.00	167.81	945.00
42845.000	850.00	494.45	1.45	2.75	0.00	213.44	945.00
42845.000	1080.00	494.94	0.49	2.89	0.00	221.73	945.00
42845.000	1920.00	496.32	1.38	3.23	0.00	245.50	945.00

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SECNO	Q	CHSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 42895.000	360.00	495.15	0.00	2.15	0.00	100.60	50.00
42895.000	850.00	496.20	1.05	1.75	0.00	243.43	50.00
42895.000	1080.00	496.50	0.30	1.56	0.00	248.52	50.00
42895.000	1920.00	497.36	0.86	1.04	0.00	263.38	50.00
42980.000	360.00	495.22	0.00	0.06	0.00	219.65	85.00
42980.000	850.00	496.25	1.03	0.04	0.00	237.46	85.00
42980.000	1080.00	496.56	0.31	0.06	0.00	242.80	85.00
42980.000	1920.00	497.47	0.91	0.11	0.00	258.56	85.00
43090.000	360.00	495.25	0.00	0.03	0.00	211.55	110.00
43090.000	850.00	496.32	1.07	0.07	0.00	229.99	110.00
43090.000	1080.00	496.65	0.33	0.10	0.00	235.67	110.00
43090.000	1920.00	497.63	0.98	0.16	0.00	252.58	110.00

SUMMARY OF ERRORS

- CAUTION SECNO=31700.000 PROFILE= 2 HYDRAULIC JUMP D.S.
- CAUTION SECNO=31700.000 PROFILE= 3 HYDRAULIC JUMP D.S.
- CAUTION SECNO=31700.000 PROFILE= 4 HYDRAULIC JUMP D.S.
- CAUTION SECNO=34000.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=34050.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=34000.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=34000.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
- CAUTION SECNO=34000.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
- CAUTION SECNO=34000.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
- CAUTION SECNO=42895.000 PROFILE= 1 HYDRAULIC JUMP D.S.

2025 RELEASE UNDER E.O. 14176

	0.					SEC. 27620.000	
1	100.	430.40	432.31	-1.91	-1.91	020	100.
2	200.	430.59	432.53	-1.94	-1.92	020	100.
3	300.	430.79	432.75	-1.96	-1.94	020	100.
	380.					SEC. 28000.000	
4	400.	430.99	432.99	-2.00	-1.95	020	100.
5	500.	431.25	433.28	-2.03	-1.97	020	100.
6	600.	431.54	433.62	-2.08	-1.99	020	100.
7	700.	431.84	433.95	-2.11	-2.00	020	100.
8	800.	432.13	434.29	-2.16	-2.02	020	100.
9	900.	432.43	434.63	-2.20	-2.04	020	100.
10	1000.	432.72	434.97	-2.25	-2.06	020	100.
11	1100.	433.02	435.30	-2.28	-2.08	020	100.
12	1200.	433.31	435.64	-2.33	-2.10	020	100.
	1230.					SEC. 28850.000	
13	1300.	433.60	435.97	-2.37	-2.12	020	100.
14	1400.	433.89	436.28	-2.39	-2.14	020	100.
15	1500.	434.17	436.59	-2.42	-2.16	020	100.
16	1600.	434.45	436.90	-2.45	-2.18	020	100.
17	1700.	434.73	437.21	-2.48	-2.20	020	100.
18	1800.	435.02	437.52	-2.50	-2.21	020	100.
19	1900.	435.30	437.83	-2.53	-2.23	020	100.
20	2000.	435.58	438.14	-2.56	-2.25	025	100.
21	2100.	435.86	438.45	-2.59	-2.26	025	100.
22	2200.	436.14	438.76	-2.62	-2.28	025	100.
23	2300.	436.42	439.06	-2.64	-2.30	025	100.
24	2400.	436.71	439.37	-2.66	-2.31	025	100.
25	2500.	436.99	439.68	-2.69	-2.33	025	100.
26	2600.	437.27	439.99	-2.72	-2.34	025	100.
27	2700.	437.55	440.30	-2.75	-2.36	025	100.
	2770.					SEC. 30390.000	
28	2800.	437.82	440.59	-2.77	-2.37	025	100.
29	2900.	438.04	440.79	-2.75	-2.38	025	100.
30	3000.	438.22	440.94	-2.72	-2.40	025	100.
31	3100.	438.41	441.09	-2.68	-2.40	025	100.
32	3200.	438.60	441.24	-2.64	-2.41	025	100.
33	3300.	438.78	441.39	-2.61	-2.42	025	100.
34	3400.	438.97	441.54	-2.57	-2.42	025	100.
	3500.					SEC. 31120.000	
35	3500.	439.15	441.70	-2.55	-2.43	025	100.
36	3600.	439.41	441.91	-2.50	-2.43	025	100.
37	3700.	439.74	442.18	-2.44	-2.43	025	100.
38	3800.	440.07	442.46	-2.39	-2.43	025	100.
	3880.					SEC. 31500.000	
39	3900.	440.40	442.75	-2.35	-2.43	025	100.
	3980.					SEC. 31600.000	
40	4000.	440.77	443.11	-2.34	-2.42	025	100.
	4060.					SEC. 31680.000	
	4080.					SEC. 31700.000	
41	4100.	441.22	444.26	-3.04	-2.44	025	100.
	4140.					SEC. 31760.000	
42	4200.	441.93	445.69	-3.76	-2.47	025	98.
	4280.					SEC. 31900.000	
43	4300.	442.69	446.62	-3.93	-2.50	025	95.
44	4400.	443.11	447.17	-4.06	-2.51	025	93.
45	4500.	443.34	447.35	-4.01	-2.57	025	91.
	4530.					SEC. 32200.000	
46	4600.	443.56	447.53	-3.97	-2.50	025	89.
47	4700.	443.76	447.69	-3.93	-2.53	025	87.
48	4800.	443.94	447.82	-3.88	-2.56	025	85.
49	4900.	444.13	447.96	-3.83	-2.58	025	84.
50	5000.	444.31	448.10	-3.79	-2.70	025	82.
51	5100.	444.49	448.24	-3.75	-2.72	025	80.
52	5200.	444.68	448.37	-3.69	-2.74	025	81.
53	5300.	444.86	448.51	-3.65	-2.75	025	85.

54	5400.	445.04	448.65	-3.61	-2.77	030	85.
	5440.					SEC. 33000.000	
55	5500.	445.22	448.77	-3.55	-2.79	030	87.
56	5600.	445.38	448.88	-3.50	-2.80	030	88.
57	5700.	445.53	448.97	-3.44	-2.61	030	88.
58	5800.	445.69	449.06	-3.37	-2.82	030	88.
59	5900.	445.84	449.16	-3.32	-2.63	030	90.
	5940.					SEC. 33500.000	
60	6000.	446.07	449.30	-3.23	-2.64	030	90.
61	6100.	446.42	449.53	-3.11	-2.44	030	90.
62	6200.	446.83	449.80	-2.97	-2.64	030	90.
63	6300.	447.23	450.07	-2.84	-2.84	030	90.
64	6400.	447.63	450.34	-2.71	-2.84	030	91.
	6440.					SEC. 34000.000	
65	6500.	448.14	450.75	-2.61	-2.84	030	91.
66	6600.	448.81	451.41	-2.60	-2.83	030	91.
67	6700.	449.56	452.17	-2.61	-2.83	030	91.
68	6800.	450.30	452.92	-2.62	-2.83	030	91.
69	6900.	451.05	453.68	-2.63	-2.83	030	91.
70	7000.	451.79	454.44	-2.65	-2.82	030	90.
	7020.					SEC. 34580.000	
71	7100.	452.35	455.03	-2.68	-2.82	030	90.
72	7200.	452.69	455.42	-2.73	-2.82	030	90.
73	7300.	452.97	455.77	-2.80	-2.82	030	90.
74	7400.	453.26	456.12	-2.86	-2.82	030	91.
	7440.					SEC. 35000.000	
75	7500.	453.58	456.48	-2.90	-2.82	030	91.
76	7600.	453.97	456.86	-2.89	-2.82	030	91.
77	7700.	454.37	457.25	-2.88	-2.82	030	91.
78	7800.	454.78	457.64	-2.86	-2.82	030	91.
79	7900.	455.19	458.03	-2.84	-2.82	030	91.
80	8000.	455.60	458.41	-2.81	-2.82	030	91.
81	8100.	456.01	458.80	-2.79	-2.82	030	91.
82	8200.	456.42	459.19	-2.77	-2.82	030	91.
83	8300.	456.82	459.58	-2.76	-2.82	030	92.
84	8400.	457.23	459.97	-2.74	-2.82	030	92.
85	8500.	457.64	460.36	-2.72	-2.82	030	92.
86	8600.	458.05	460.75	-2.70	-2.82	030	92.
87	8700.	458.46	461.14	-2.68	-2.82	030	92.
88	8800.	458.87	461.53	-2.66	-2.81	030	92.
89	8900.	459.27	461.92	-2.65	-2.81	030	92.
90	9000.	459.68	462.30	-2.62	-2.81	030	92.
91	9100.	460.09	462.69	-2.60	-2.81	030	92.
92	9200.	460.50	463.08	-2.58	-2.81	030	92.
93	9300.	460.91	463.47	-2.56	-2.80	030	92.
94	9400.	461.32	463.86	-2.54	-2.80	030	93.
95	9500.	461.72	464.25	-2.53	-2.80	030	93.
	9550.					SEC. 37110.000	
96	9600.	462.14	464.63	-2.49	-2.79	030	93.
97	9700.	462.57	465.00	-2.43	-2.79	030	93.
98	9800.	463.00	465.36	-2.36	-2.79	030	93.
99	9900.	463.44	465.73	-2.29	-2.78	030	92.
100	10000.	463.87	466.09	-2.22	-2.78	030	92.
101	10100.	464.30	466.45	-2.15	-2.77	030	92.
102	10200.	464.74	466.81	-2.07	-2.76	030	92.
103	10300.	465.17	467.18	-2.01	-2.75	030	91.
104	10400.	465.61	467.54	-1.93	-2.75	030	91.
105	10500.	466.04	467.90	-1.86	-2.74	025	90.
106	10600.	466.48	468.26	-1.78	-2.73	025	91.
	10670.					SEC. 38230.000	
107	10700.	466.92	468.65	-1.73	-2.72	025	91.
108	10800.	467.40	469.09	-1.69	-2.71	025	90.
109	10900.	467.90	469.59	-1.69	-2.70	025	89.
110	11000.	468.41	470.08	-1.67	-2.69	025	90.
111	11100.	468.91	470.58	-1.67	-2.68	025	88.
112	11200.	469.41	471.07	-1.66	-2.67	025	89.

UNITED STATES GOVERNMENT
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113	11300	469.91	471.57	-1.66	-2.66	025	90.
114	11400	470.42	472.06	-1.64	-2.66	025	89.
115	11500	470.92	472.55	-1.63	-2.65	025	89.
	11590					SEC. 39150.000	
116	11600	471.46	473.07	-1.61	-2.64	025	88.
	11650					SEC. 39210.000	
	11670					SEC. 39230.000	
117	11700	472.53	474.03	-1.50	-2.63	025	80.
	11740					SEC. 39300.000	
118	11800	473.51	475.04	-1.53	-2.62	025	87.
	11810					SEC. 39370.000	
119	11900	473.89	475.57	-1.68	-2.61	025	88.
120	12000	474.28	475.99	-1.71	-2.60	025	88.
121	12100	474.67	476.42	-1.75	-2.60	025	88.
122	12200	475.07	476.85	-1.78	-2.59	025	88.
123	12300	475.46	477.28	-1.82	-2.58	025	83.
124	12400	475.86	477.71	-1.85	-2.58	025	88.
	12440					SEC. 40000.000	
125	12500	476.33	478.17	-1.84	-2.57	025	88.
	12570					SEC. 40130.000	
	12590					SEC. 40150.000	
126	12600	482.22	483.58	-1.36	-2.56	025	87.
	12690					SEC. 40250.000	
127	12700	487.85	488.74	-0.89	-2.55	025	87.
128	12800	487.85	488.75	-0.90	-2.54	025	85.
129	12900	487.85	488.75	-0.90	-2.52	025	85.
130	13000	487.65	488.76	-0.91	-2.51	025	85.
131	13100	487.85	488.76	-0.91	-2.50	025	85.
132	13200	487.85	488.77	-0.92	-2.49	025	83.
133	13300	487.85	488.77	-0.92	-2.47	025	83.
134	13400	487.85	488.77	-0.92	-2.46	025	82.
	13440					SEC. 41000.000	
135	13500	487.86	488.78	-0.92	-2.45	025	81.
136	13600	487.86	488.80	-0.94	-2.44	025	81.
137	13700	487.86	488.82	-0.96	-2.43	025	80.
138	13800	487.87	488.84	-0.97	-2.42	025	79.
139	13900	487.87	488.86	-0.99	-2.41	025	70.
140	14000	487.87	488.89	-1.02	-2.40	025	78.
141	14100	487.88	488.91	-1.03	-2.39	025	77.
142	14200	487.88	488.93	-1.05	-2.38	025	77.
143	14300	487.88	488.95	-1.07	-2.37	025	76.
	14340					SEC. 41900.000	
144	14400	487.92	489.04	-1.12	-2.36	025	76.
145	14500	488.00	489.23	-1.23	-2.35	025	75.
146	14600	488.11	489.48	-1.37	-2.35	025	75.
147	14700	488.21	489.72	-1.51	-2.34	025	76.
	14740					SEC. 42300.000	
148	14800	488.46	490.05	-1.59	-2.34	025	76.
149	14900	488.96	490.52	-1.56	-2.33	025	76.
150	15000	489.55	491.05	-1.50	-2.33	025	76.
151	15100	490.15	491.57	-1.42	-2.32	025	76.
	15140					SEC. 42700.000	
152	15200	490.64	492.04	-1.40	-2.31	025	76.
153	15300	490.95	492.39	-1.44	-2.31	025	76.
154	15400	491.20	492.69	-1.49	-2.30	025	76.
155	15500	491.44	493.00	-1.56	-2.30	025	76.
156	15600	491.69	493.30	-1.61	-2.29	025	76.
157	15700	491.94	493.61	-1.67	-2.29	025	76.
158	15800	492.18	493.91	-1.73	-2.29	025	77.
159	15900	492.43	494.22	-1.79	-2.28	025	77.
160	16000	492.67	494.53	-1.86	-2.28	025	77.
	16085					SEC. 42845.000	
161	16100	493.22	495.04	-1.82	-2.28	025	77.
	16135					SEC. 42895.000	
162	16200	494.43	495.97	-1.54	-2.27	025	77.
	16270					SEC. 42980.000	

HEC2 RELEASE DATED NOV 76 UPDATED AUG 77
ERROR CORR - 01,02
MODIFICATION - 50,51,52,53

STOP
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*****JOBCTRL ER 364 : NO LIST/DISPLAY AREA GIVEN
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*****JOBCTRL ER 364 : NO LIST/DISPLAY AREA GIVEN
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*****JOBCTRL ER 364 : NO LIST/DISPLAY AREA GIVEN
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*****JOBCTRL ER 364 : NO LIST/DISPLAY AREA GIVEN
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*****JOBCTRL ER 364 : NO LIST/DISPLAY AREA GIVEN
EOF..

2

SEOJ (SUPPLIED BY COURTESY OF HARRIS)

*****JOB EXITED ON 5 SEP 78 9:08:53*****

*****CPU TIME= 0MINS 58.19SECS*****

*****CONNECT TIME= 1MINS 14SECS*****

IBM 3081-1000

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