

**MONROE COUNTY WATER DISTRICT
PHASE IX WATER SYSTEM IMPROVEMENTS**

HYDRAULIC CALCULATIONS

Prepared By:

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SEA Project No. 0323

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Date & Time: Fri Apr 29 12:01:04 2011

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INPUT DATA FILENAME ----- C:\PROGRA~1\PIPE2006\DATAFI~1\0323fina.DT2
TABULATED OUTPUT FILENAME ----- C:\PROGRA~1\PIPE2006\DATAFI~1\0323fina.OT2
POSTPROCESSOR RESULTS FILENAME --- C:\PROGRA~1\PIPE2006\DATAFI~1\0323fina.RS2

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*****
SUMMARY OF ORIGINAL DATA
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UNITS SPECIFIED

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FLOWRATE ..... = gallons/minute
HEAD (HGL) ..... = feet
PRESSURE ..... = psig
METERED FLOW ..... = gallons
POWER COST ..... = 0.050 $/kW-Hr

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PIPELINE DATA

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NAMES		LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF.	MINOR LOSS COEFF.
	#1	#2				
P-1	CLOYD WILL	J-35	50.00	24.00	130.0000	0.00
P-10	J-9	J-8	4636.07	10.00	130.0000	0.00
P-11	J-1	J-18	2615.76	8.00	130.0000	0.00
P-12	J-10	COUNTY HOU	50.00	24.00	130.0000	0.00
P-13	J-11	J-10	3608.93	8.00	130.0000	0.00
P-14	J-12	J-11	1368.66	8.00	130.0000	0.00
P-15	J-13	I-Pump-1	516.25	8.00	130.0000	0.00
P-16	J-14	J-13	1594.24	8.00	130.0000	0.00
P-17	J-15	J-14	869.13	8.00	130.0000	0.00
P-18	J-16	J-15	2678.29	8.00	130.0000	0.00
P-19	J-17	J-16	835.51	8.00	130.0000	0.00
P-2	J-1	J-2	130.74	8.00	130.0000	0.00
P-20	J-18	J-17	6829.34	8.00	130.0000	0.00
P-21	J-3	J-22	1132.53	10.00	130.0000	0.00
P-22	J-19	J-20	770.26	10.00	130.0000	0.00
P-23	J-20	J-21	4054.57	8.00	130.0000	0.00
P-24	J-22	J-19	1262.72	10.00	130.0000	0.00
P-25	J-20	J-28	3985.64	6.00	130.0000	0.00
P-26	J-42	J-24	840.41	8.00	130.0000	0.00
P-27	J-24	J-23	34.96	8.00	130.0000	0.00
P-28	J-25	J-42	8311.35	6.00	130.0000	0.00
P-29	J-26	J-25	7317.48	6.00	130.0000	0.00
P-3	J-2	I-Pump-2	6088.63	10.00	130.0000	0.00
P-30	J-27	J-26	3455.66	6.00	130.0000	0.00
P-31	J-28	J-27	3777.50	6.00	130.0000	0.00

P-32	J-21	J-34	3136.92	8.00	130.0000	0.00
P-33	O-Pump-1	J-12	1366.63	8.00	130.0000	0.00
P-34	O-Pump-3	J-30	388.83	24.00	130.0000	0.00
P-35	I-Pump-3	R-2	50.00	24.00	130.0000	0.00
P-36	J-30	J-29	1715.88	16.00	130.0000	0.00
P-37	J-29	J-31	6102.42	16.00	130.0000	0.00
P-38	J-31	J-33	4637.77	16.00	130.0000	0.00
P-39	J-33	J-32	969.48	16.00	130.0000	0.00
P-4	O-Pump-2	J-9	1337.21	10.00	130.0000	0.00
P-40	J-32	J-35	8161.95	16.00	130.0000	0.00
P-41	J-35	J-2	3058.35	16.00	130.0000	0.00
P-42	COUNTY HOU	J-36	50.00	8.00	130.0000	0.00
P-43	CLOYD WILL	J-37	50.00	16.00	130.0000	0.00
P-44	J-23 PERSIMMON		4.24	10.00	130.0000	0.00
P-45	J-34	J-39	633.26	8.00	130.0000	0.00
P-46	J-39	J-40	3377.81	8.00	130.0000	0.00
P-47	J-40	J-41	6728.00	8.00	130.0000	0.00
P-48	J-41	J-43	4764.79	8.00	130.0000	0.00
P-49	J-43	J-42	1785.67	8.00	130.0000	0.00
P-5	J-4	J-3	3305.46	10.00	130.0000	0.00
P-50	PERSIMMON	J-38	10.00	10.00	130.0000	0.00
P-6	J-5	J-4	3868.16	10.00	130.0000	0.00
P-7	J-6	J-5	1618.64	10.00	130.0000	0.00
P-8	J-7	J-6	3107.97	10.00	130.0000	0.00
P-9	J-8	J-7	1363.23	10.00	130.0000	0.00

P U M P / L O S S E L E M E N T D A T A

THERE IS A DEVICE AT NODE Pump-1 DESCRIBED BY THE FOLLOWING DATA: (ID= 2)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
138.00	0.00	75.00 (Default)
113.00	400.00	75.00 (Default)
65.00	700.00	75.00 (Default)

THERE IS A DEVICE AT NODE Pump-2 DESCRIBED BY THE FOLLOWING DATA: (ID= 1)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
300.00	0.00	75.00 (Default)
235.00	520.00	75.00 (Default)
185.00	620.00	75.00 (Default)

THERE IS A DEVICE AT NODE Pump-3 DESCRIBED BY THE FOLLOWING DATA: (ID= 3)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
790.00	0.00	75.00 (Default)
662.00	1900.00	75.00 (Default)
338.00	2800.00	75.00 (Default)

E N D N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)

CLOYD WILL		----	998.50	1114.00

COUNTY HOU	----	1009.00	1144.00
J-1	0.00	1028.00	
J-10	0.00	1020.00	
J-11	0.00	960.00	
J-12	0.00	785.00	
J-13	0.00	950.00	
J-14	0.00	780.00	
J-15	0.00	780.00	
J-16	0.00	915.00	
J-17	0.00	850.00	
J-18	0.00	990.00	
J-19	0.00	1030.00	
J-2	0.00	1000.00	
J-20	0.00	1050.00	
J-21	0.00	1050.00	
J-22	0.00	1005.00	
J-23	0.00	1090.00	
J-24	0.00	1090.00	
J-25	0.00	1060.00	
J-26	0.00	1020.00	
J-27	0.00	1070.00	
J-28	0.00	1050.00	
J-29	0.00	530.00	
J-3	0.00	1025.00	
J-30	0.00	530.00	
J-31	0.00	565.00	
J-32	0.00	900.00	
J-33	0.00	860.00	
J-34	0.00	0.00	
J-35	0.00	1000.00	
J-36	150.00	1009.00	
J-37	208.00	998.50	
J-38	328.00	0.00	
J-39	0.00	1070.00	
J-4	0.00	1010.00	
J-40	0.00	1040.00	
J-41	0.00	1070.00	
J-42	0.00	1130.00	
J-43	0.00	1130.00	
J-5	0.00	1040.00	
J-6	0.00	1050.00	
J-7	0.00	1000.00	
J-8	0.00	1021.00	
J-9	0.00	1040.00	
PERSIMMON	----	1115.00	1206.00
I-Pump-1	0.00	0.00	
O-Pump-2	0.00	995.00	
I-Pump-3	0.00	540.00	
R-2	----	0.00	550.00
O-Pump-1	0.00	0.00	
I-Pump-2	0.00	995.00	
O-Pump-3	0.00	540.00	

OUTPUT OPTION DATA

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT
 MAXIMUM AND MINIMUM PRESSURES = 3
 MAXIMUM AND MINIMUM VELOCITIES = 3
 MAXIMUM AND MINIMUM HEAD LOSS/1000 = 3

EPS DATA

TOTAL TIME FOR SIMULATION = 48.000

NORMAL TIME PERIOD FOR CALCULATIONS = 1.000
 NORMAL TIME PERIOD FOR TABULATED OUTPUT = 1.000
 NORMAL TIME PERIOD FOR POSTPROCESSING FILE = 1.000

EPS OUTPUT SELECTION: THE ABOVE TABULATED OUTPUT OPTIONS ARE INCLUDED
 WITH THE FOLLOWING EXTENDED PERIOD PRINT OPTIONS

INTERMEDIATE REPORTS (tank status, flow meter, regulating valve, etc.)
 SUPPRESSED FOR ALL INTERMEDIATE TIME PERIODS
 SUPPRESSED FOR ALL STATUS CHANGES (tanks, pressure switches, etc.)

V A R I A B L E H E A D T A N K D A T A

TANK NAME (*)	MAXIMUM ELEVATION (ft)	MINIMUM ELEVATION (ft)	TANK CAPACITY (gal)	INITIAL VOLUME (gal)	EXTERNAL FLOW (gpm)
CLOYD WILLI (1)	1119.00	1085.00	626478.	534348.	0.00
COUNTY HOUS (1)	1149.00	1118.00	455357.	381913.	0.00
PERSIMMON (1)	1216.00	1190.00	282462.	173823.	0.00

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

P R E S S U R E S W I T C H D A T A

REFERENCE ELEMENT	REFERENCE NODE	SWITCHING GRADES (ft)
Pump-1	J-10	1140.00 & 1148.00
Pump-2	J-23	1205.00 & 1214.00
Pump-3	J-35	1104.00 & 1116.00

S Y S T E M C O N F I G U R A T I O N

NUMBER OF PIPES (p) = 50
 NUMBER OF END NODES (j) = 46
 NUMBER OF PRIMARY LOOPS (l) = 1
 NUMBER OF SUPPLY NODES (f) = 4
 NUMBER OF SUPPLY ZONES (z) = 1

Time: 0.000
 Time: 0.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 0.0001 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 0.000

TIME FROM INITIATION OF EPS = 0.0001 HOURS (0 HOURS, DAY: 1)

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	-1132.67	0.01	0.00	0.80	0.11	0.11
P-10	J-9	J-8	539.42	9.11	0.00	2.20	1.96	1.96
P-11	J-1	J-18	413.15	9.30	0.00	2.64	3.55	3.55
P-12	J-10	COUNTY HOU	413.15	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	413.15	12.83	0.00	2.64	3.55	3.55
P-14	J-12	J-11	413.15	4.86	0.00	2.64	3.55	3.55
P-15	J-13	I-Pump-1	413.15	1.83	0.00	2.64	3.55	3.55
P-16	J-14	J-13	413.15	5.67	0.00	2.64	3.55	3.55
P-17	J-15	J-14	413.15	3.09	0.00	2.64	3.55	3.55
P-18	J-16	J-15	413.15	9.52	0.00	2.64	3.55	3.55
P-19	J-17	J-16	413.15	2.97	0.00	2.64	3.55	3.55
P-2	J-1	J-2	-413.15	0.46	0.00	2.64	3.55	3.55
P-20	J-18	J-17	413.15	24.27	0.00	2.64	3.55	3.55
P-21	J-3	J-22	539.42	2.22	0.00	2.20	1.96	1.96
P-22	J-19	J-20	539.42	1.51	0.00	2.20	1.96	1.96
P-23	J-20	J-21	372.92	11.92	0.00	2.38	2.94	2.94
P-24	J-22	J-19	539.42	2.48	0.00	2.20	1.96	1.96
P-25	J-20	J-28	166.51	10.68	0.00	1.89	2.68	2.68
P-26	J-42	J-24	539.42	4.89	0.00	3.44	5.82	5.82
P-27	J-24	J-23	539.42	0.20	0.00	3.44	5.82	5.82
P-28	J-25	J-42	166.51	22.28	0.00	1.89	2.68	2.68
P-29	J-26	J-25	166.51	19.62	0.00	1.89	2.68	2.68
P-3	J-2	I-Pump-2	539.42	11.96	0.00	2.20	1.96	1.96
P-30	J-27	J-26	166.51	9.26	0.00	1.89	2.68	2.68
P-31	J-28	J-27	166.51	10.13	0.00	1.89	2.68	2.68
P-32	J-21	J-34	372.92	9.22	0.00	2.38	2.94	2.94
P-33	O-Pump-1	J-12	413.15	4.86	0.00	2.64	3.55	3.55
P-34	O-Pump-3	J-30	2085.25	0.13	0.00	1.48	0.34	0.34
P-35	I-Pump-3	R-2	-2085.25	0.02	0.00	1.48	0.34	0.34
P-36	J-30	J-29	2085.25	4.18	0.00	3.33	2.44	2.44
P-37	J-29	J-31	2085.25	14.87	0.00	3.33	2.44	2.44
P-38	J-31	J-33	2085.25	11.30	0.00	3.33	2.44	2.44
P-39	J-33	J-32	2085.25	2.36	0.00	3.33	2.44	2.44
P-4	O-Pump-2	J-9	539.42	2.63	0.00	2.20	1.96	1.96
P-40	J-32	J-35	2085.25	19.89	0.00	3.33	2.44	2.44
P-41	J-35	J-2	952.58	1.75	0.00	1.52	0.57	0.57
P-42	COUNTY HOU	J-36	49.50	0.00	0.00	0.32	0.07	0.07
P-43	CLOYD WILL	J-37	68.64	0.00	0.00	0.11	0.00	0.00
P-44	J-23	PERSIMMON	539.42	0.01	0.00	2.20	1.96	1.96
P-45	J-34	J-39	372.92	1.86	0.00	2.38	2.94	2.94
P-46	J-39	J-40	372.92	9.93	0.00	2.38	2.94	2.94
P-47	J-40	J-41	372.92	19.78	0.00	2.38	2.94	2.94
P-48	J-41	J-43	372.92	14.01	0.00	2.38	2.94	2.94
P-49	J-43	J-42	372.92	5.25	0.00	2.38	2.94	2.94
P-5	J-4	J-3	539.42	6.49	0.00	2.20	1.96	1.96
P-50	PERSIMMON	J-38	108.24	0.00	0.00	0.44	0.10	0.10
P-6	J-5	J-4	539.42	7.60	0.00	2.20	1.96	1.96
P-7	J-6	J-5	539.42	3.18	0.00	2.20	1.96	1.96
P-8	J-7	J-6	539.42	6.11	0.00	2.20	1.96	1.96
P-9	J-8	J-7	539.42	2.68	0.00	2.20	1.96	1.96

PUMP/LOSS ELEMENT RESULTS

QPSH avail. (ft)	NAME	FLOWRATE (gpm)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREM COST (\$)	TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES
1088.2	Pump-1	413.15	1055.15	1166.55	111.4	75.00	12.	0.0	0.0	**	**
138.4	Pump-2	539.42	105.30	332.09	226.8	75.00	31.	0.0	0.0	**	**
13.1	Pump-3	2085.25	9.98	626.73	616.8	75.00	325.	0.0	0.0	**	**

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1114.00	998.50	115.50	50.05
COUNTY HOU		----	1144.00	1009.00	135.00	58.50
J-1		0.00	1111.79	1028.00	83.79	36.31
J-10		0.00	1144.00	1020.00	124.00	53.73
J-11		0.00	1156.83	960.00	196.83	85.29
J-12		0.00	1161.69	785.00	376.69	163.23
J-13		0.00	1056.98	950.00	106.98	46.36
J-14		0.00	1062.65	780.00	282.65	122.48
J-15		0.00	1065.74	780.00	285.74	123.82
J-16		0.00	1075.26	915.00	160.26	69.44
J-17		0.00	1078.23	850.00	228.23	98.90
J-18		0.00	1102.50	990.00	112.50	48.75
J-19		0.00	1284.59	1030.00	254.59	110.32
J-2		0.00	1112.26	1000.00	112.26	48.65
J-20		0.00	1283.08	1050.00	233.08	101.00
J-21		0.00	1271.16	1050.00	221.16	95.83
J-22		0.00	1287.07	1005.00	282.07	122.23
J-23		0.00	1206.01	1090.00	116.01	50.27
J-24		0.00	1206.21	1090.00	116.21	50.36
J-25		0.00	1233.39	1060.00	173.39	75.13
J-26		0.00	1253.00	1020.00	233.00	100.97
J-27		0.00	1262.27	1070.00	192.27	83.31
J-28		0.00	1272.39	1050.00	222.39	96.37
J-29		0.00	1162.42	530.00	632.42	274.05
J-3		0.00	1289.29	1025.00	264.29	114.53
J-30		0.00	1166.60	530.00	636.60	275.86
J-31		0.00	1147.55	565.00	582.55	252.44
J-32		0.00	1133.89	900.00	233.89	101.35
J-33		0.00	1136.25	860.00	276.25	119.71
J-34		0.00	1261.93			
J-35		0.00	1114.01	1000.00	114.01	49.40
J-36		49.50 (0.33)	1144.00	1009.00	135.00	58.50
J-37		68.64 (0.33)	1114.00	998.50	115.50	50.05
J-38		108.24 (0.33)	1206.00			
J-39		0.00	1260.07	1070.00	190.07	82.36
J-4		0.00	1295.79	1010.00	285.79	123.84
J-40		0.00	1250.14	1040.00	210.14	91.06
J-41		0.00	1230.36	1070.00	160.36	69.49
J-42		0.00	1211.11	1130.00	81.11	35.15
J-43		0.00	1216.36	1130.00	86.36	37.42
J-5		0.00	1303.39	1040.00	263.39	114.13

J-6	0.00	1306.57	1050.00	256.57	111.18
J-7	0.00	1312.67	1000.00	312.67	135.49
J-8	0.00	1315.35	1021.00	294.35	127.55
J-9	0.00	1324.46	1040.00	284.46	123.27
PERSIMMON	----	1206.00	1115.00	91.00	39.43
I-Pump-1	0.00	1055.15			
O-Pump-2	0.00	1327.09	995.00	332.09	143.90
O-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1166.55			
I-Pump-2	0.00	1100.30	995.00	105.30	45.63
O-Pump-3	0.00	1166.73	540.00	626.73	271.58

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	275.86	I-Pump-3	4.33
J-29	274.05	J-42	35.15
O-Pump-3	271.58	J-1	36.31

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.44	P-43	0.11
P-27	3.44	P-12	0.29
P-36	3.33	P-42	0.32

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-26	5.82	P-43	0.00
P-27	5.82	P-12	0.02
P-18	3.55	P-42	0.07

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-26	5.82	P-43	0.00
P-27	5.82	P-12	0.02
P-18	3.55	P-42	0.07

SUMMARY OF INFLOWS AND OUTFLOWS

(INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-, OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
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CLOYD WILLI -1064.03
 COUNTY HOUS -363.65
 PERSIMMON -431.18
 R-2 2085.25

NET SYSTEM INFLOW = 2085.25
 NET SYSTEM OUTFLOW = -1858.87
 NET SYSTEM DEMAND = 226.38

TANK STATUS REPORT (time = 0.0001 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	1064.03	1114.00	29.00	534348.	85.3	FILLING	32.46
COUNTY HOUS(1)	363.65	1144.00	26.00	381913.	83.9	FILLING	27.49
PERSIMMON(1)	431.18	1206.00	16.00	173823.	61.5	FILLING	18.38

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 1.000

CHANGES FOR NEXT SIMULATION (time = 1.0000 hours)

UNIFORM COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 1.000

TIME FROM INITIATION OF EPS = 1.0000 HOURS (100 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL J-35	-1116.44	0.01	0.00	0.79	0.11	0.11
P-10	J-9 J-8	540.61	9.15	0.00	2.21	1.97	1.97
P-11	J-1 J-18	417.22	9.47	0.00	2.66	3.62	3.62
P-12	J-10COUNTY HOU	417.22	0.00	0.00	0.30	0.02	0.02
P-13	J-11 J-10	417.22	13.06	0.00	2.66	3.62	3.62
P-14	J-12 J-11	417.22	4.95	0.00	2.66	3.62	3.62
P-15	J-13 I-Pump-1	417.22	1.87	0.00	2.66	3.62	3.62
P-16	J-14 J-13	417.22	5.77	0.00	2.66	3.62	3.62
P-17	J-15 J-14	417.22	3.15	0.00	2.66	3.62	3.62
P-18	J-16 J-15	417.22	9.69	0.00	2.66	3.62	3.62
P-19	J-17 J-16	417.22	3.02	0.00	2.66	3.62	3.62
P-2	J-1 J-2	-417.22	0.47	0.00	2.66	3.62	3.62

P-20	J-18	J-17	417.22	24.72	0.00	2.66	3.62	3.62
P-21	J-3	J-22	540.61	2.23	0.00	2.21	1.97	1.97
P-22	J-19	J-20	540.61	1.52	0.00	2.21	1.97	1.97
P-23	J-20	J-21	373.74	11.97	0.00	2.39	2.95	2.95
P-24	J-22	J-19	540.61	2.49	0.00	2.21	1.97	1.97
P-25	J-20	J-28	166.87	10.73	0.00	1.89	2.69	2.69
P-26	J-42	J-24	540.61	4.91	0.00	3.45	5.85	5.85
P-27	J-24	J-23	540.61	0.20	0.00	3.45	5.85	5.85
P-28	J-25	J-42	166.87	22.37	0.00	1.89	2.69	2.69
P-29	J-26	J-25	166.87	19.70	0.00	1.89	2.69	2.69
P-3	J-2	I-Pump-2	540.61	12.01	0.00	2.21	1.97	1.97
P-30	J-27	J-26	166.87	9.30	0.00	1.89	2.69	2.69
P-31	J-28	J-27	166.87	10.17	0.00	1.89	2.69	2.69
P-32	J-21	J-34	373.74	9.26	0.00	2.39	2.95	2.95
P-33	O-Pump-1	J-12	417.22	4.95	0.00	2.66	3.62	3.62
P-34	O-Pump-3	J-30	2074.27	0.13	0.00	1.47	0.33	0.33
P-35	I-Pump-3	R-2	-2074.27	0.02	0.00	1.47	0.33	0.33
P-36	J-30	J-29	2074.27	4.14	0.00	3.31	2.41	2.41
P-37	J-29	J-31	2074.27	14.72	0.00	3.31	2.41	2.41
P-38	J-31	J-33	2074.27	11.19	0.00	3.31	2.41	2.41
P-39	J-33	J-32	2074.27	2.34	0.00	3.31	2.41	2.41
P-4	O-Pump-2	J-9	540.61	2.64	0.00	2.21	1.97	1.97
P-40	J-32	J-35	2074.27	19.69	0.00	3.31	2.41	2.41
P-41	J-35	J-2	957.83	1.76	0.00	1.53	0.58	0.58
P-42	COUNTY HOU	J-36	37.50	0.00	0.00	0.24	0.04	0.04
P-43	CLOYD WILL	J-37	52.00	0.00	0.00	0.08	0.00	0.00
P-44	J-23	PERSIMMON	540.61	0.01	0.00	2.21	1.97	1.97
P-45	J-34	J-39	373.74	1.87	0.00	2.39	2.95	2.95
P-46	J-39	J-40	373.74	9.97	0.00	2.39	2.95	2.95
P-47	J-40	J-41	373.74	19.86	0.00	2.39	2.95	2.95
P-48	J-41	J-43	373.74	14.06	0.00	2.39	2.95	2.95
P-49	J-43	J-42	373.74	5.27	0.00	2.39	2.95	2.95
P-5	J-4	J-3	540.61	6.52	0.00	2.21	1.97	1.97
P-50	PERSIMMON	J-38	82.00	0.00	0.00	0.33	0.06	0.06
P-6	J-5	J-4	540.61	7.63	0.00	2.21	1.97	1.97
P-7	J-6	J-5	540.61	3.19	0.00	2.21	1.97	1.97
P-8	J-7	J-6	540.61	6.13	0.00	2.21	1.97	1.97
P-9	J-8	J-7	540.61	2.69	0.00	2.21	1.97	1.97

P U M P / L O S S E L E M E N T R E S U L T S

NPSH		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
Pump-1	417.22	1057.55	1168.45	110.9	75.00	12.	0.6	0.6	**	**
1090.6										
Pump-2	540.61	108.70	334.96	226.3	75.00	31.	1.5	1.5	**	**
141.8										
Pump-3	2074.27	9.98	629.69	619.7	75.00	325.	16.1	16.1	**	**
43.1										

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE

	(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL	----	1117.46	998.50	118.96	51.55
COUNTY HOU	----	1145.49	1009.00	136.49	59.14
J-1	0.00	1115.23	1028.00	87.23	37.80
J-10	0.00	1145.49	1020.00	125.49	54.38
J-11	0.00	1158.55	960.00	198.55	86.04
J-12	0.00	1163.50	785.00	378.50	164.02
J-13	0.00	1059.42	950.00	109.42	47.41
J-14	0.00	1065.19	780.00	285.19	123.58
J-15	0.00	1068.33	780.00	288.33	124.94
J-16	0.00	1078.03	915.00	163.03	70.64
J-17	0.00	1081.05	850.00	231.05	100.12
J-18	0.00	1105.77	990.00	115.77	50.17
J-19	0.00	1287.29	1030.00	257.29	111.49
J-2	0.00	1115.71	1000.00	115.71	50.14
J-20	0.00	1285.77	1050.00	235.77	102.17
J-21	0.00	1273.80	1050.00	223.80	96.98
J-22	0.00	1289.78	1005.00	284.78	123.41
J-23	0.00	1208.39	1090.00	118.39	51.30
J-24	0.00	1208.59	1090.00	118.59	51.39
J-25	0.00	1235.88	1060.00	175.88	76.21
J-26	0.00	1255.57	1020.00	235.57	102.08
J-27	0.00	1264.88	1070.00	194.88	84.45
J-28	0.00	1275.04	1050.00	225.04	97.52
J-29	0.00	1165.41	530.00	635.41	275.35
J-3	0.00	1292.01	1025.00	267.01	115.71
J-30	0.00	1169.55	530.00	639.55	277.14
J-31	0.00	1150.69	565.00	585.69	253.80
J-32	0.00	1137.16	900.00	237.16	102.77
J-33	0.00	1139.50	860.00	279.50	121.12
J-34	0.00	1264.54			
J-35	0.00	1117.47	1000.00	117.47	50.90
J-36	37.50 (0.25)	1145.48	1009.00	136.48	59.14
J-37	52.00 (0.25)	1117.46	998.50	118.96	51.55
J-38	82.00 (0.25)	1208.38			
J-39	0.00	1262.67	1070.00	192.67	83.49
J-4	0.00	1298.54	1010.00	288.54	125.03
J-40	0.00	1252.70	1040.00	212.70	92.17
J-41	0.00	1232.84	1070.00	162.84	70.57
J-42	0.00	1213.51	1130.00	83.51	36.19
J-43	0.00	1218.78	1130.00	88.78	38.47
J-5	0.00	1306.17	1040.00	266.17	115.34
J-6	0.00	1309.36	1050.00	259.36	112.39
J-7	0.00	1315.49	1000.00	315.49	136.71
J-8	0.00	1318.18	1021.00	297.18	128.78
J-9	0.00	1327.32	1040.00	287.32	124.51
PERSIMMON	----	1208.38	1115.00	93.38	40.47
I-Pump-1	0.00	1057.55			
O-Pump-2	0.00	1329.96	995.00	334.96	145.15
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1168.45			
I-Pump-2	0.00	1103.70	995.00	108.70	47.10
O-Pump-3	0.00	1169.69	540.00	629.69	272.86

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
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J-30	277.14	I-Pump-3	4.33
J-29	275.35	J-42	36.19
O-Pump-3	272.86	J-1	37.80

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.45	P-43	0.08
P-27	3.45	P-42	0.24
P-36	3.31	P-12	0.30

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.85	P-43	0.00
P-26	5.85	P-12	0.02
P-16	3.62	P-42	0.04

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.85	P-43	0.00
P-26	5.85	P-12	0.02
P-16	3.62	P-42	0.04

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1064.44	
COUNTY HOUS	-379.72	
PERSIMMON	-458.61	
R-2	2074.27	

NET SYSTEM INFLOW = 2074.27
NET SYSTEM OUTFLOW = -1902.77
NET SYSTEM DEMAND = 171.50

Switch Activated

PRESSURE SWITCHES ACTIVATED

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-3	CLOSED	J-35	1117.47	1104.00

Time: 1.000

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	957.80	0.00	0.00	0.68	0.08	0.08
P-10	J-9	J-8	540.60	9.14	0.00	2.21	1.97	1.97
P-11	J-1	J-18	417.20	9.47	0.00	2.66	3.62	3.62
P-12	J-10	COUNTY HOU	417.20	0.00	0.00	0.30	0.02	0.02
P-13	J-11	J-10	417.20	13.06	0.00	2.66	3.62	3.62
P-14	J-12	J-11	417.20	4.95	0.00	2.66	3.62	3.62
P-15	J-13	I-Pump-1	417.20	1.87	0.00	2.66	3.62	3.62
P-16	J-14	J-13	417.20	5.77	0.00	2.66	3.62	3.62
P-17	J-15	J-14	417.20	3.15	0.00	2.66	3.62	3.62
P-18	J-16	J-15	417.20	9.69	0.00	2.66	3.62	3.62
P-19	J-17	J-16	417.20	3.02	0.00	2.66	3.62	3.62
P-2	J-1	J-2	-417.20	0.47	0.00	2.66	3.62	3.62
P-20	J-18	J-17	417.20	24.71	0.00	2.66	3.62	3.62
P-21	J-3	J-22	540.60	2.23	0.00	2.21	1.97	1.97
P-22	J-19	J-20	540.60	1.52	0.00	2.21	1.97	1.97
P-23	J-20	J-21	373.73	11.97	0.00	2.39	2.95	2.95
P-24	J-22	J-19	540.60	2.49	0.00	2.21	1.97	1.97
P-25	J-20	J-28	166.87	10.73	0.00	1.89	2.69	2.69
P-26	J-42	J-24	540.60	4.91	0.00	3.45	5.85	5.85
P-27	J-24	J-23	540.60	0.20	0.00	3.45	5.85	5.85
P-28	J-25	J-42	166.87	22.37	0.00	1.89	2.69	2.69
P-29	J-26	J-25	166.87	19.69	0.00	1.89	2.69	2.69
P-3	J-2	I-Pump-2	540.60	12.01	0.00	2.21	1.97	1.97
P-30	J-27	J-26	166.87	9.30	0.00	1.89	2.69	2.69
P-31	J-28	J-27	166.87	10.17	0.00	1.89	2.69	2.69
P-32	J-21	J-34	373.73	9.26	0.00	2.39	2.95	2.95
P-33	O-Pump-1	J-12	417.20	4.95	0.00	2.66	3.62	3.62
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	540.60	2.64	0.00	2.21	1.97	1.97
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	957.80	1.76	0.00	1.53	0.58	0.58
P-42	COUNTY HOU	J-36	37.50	0.00	0.00	0.24	0.04	0.04
P-43	CLOYD WILL	J-37	52.00	0.00	0.00	0.08	0.00	0.00
P-44	J-23	PERSIMMON	540.60	0.01	0.00	2.21	1.97	1.97
P-45	J-34	J-39	373.73	1.87	0.00	2.39	2.95	2.95
P-46	J-39	J-40	373.73	9.97	0.00	2.39	2.95	2.95
P-47	J-40	J-41	373.73	19.86	0.00	2.39	2.95	2.95
P-48	J-41	J-43	373.73	14.06	0.00	2.39	2.95	2.95
P-49	J-43	J-42	373.73	5.27	0.00	2.39	2.95	2.95
P-5	J-4	J-3	540.60	6.52	0.00	2.21	1.97	1.97
P-50	PERSIMMON	J-38	82.00	0.00	0.00	0.33	0.06	0.06
P-6	J-5	J-4	540.60	7.63	0.00	2.21	1.97	1.97
P-7	J-6	J-5	540.60	3.19	0.00	2.21	1.97	1.97
P-8	J-7	J-6	540.60	6.13	0.00	2.21	1.97	1.97
P-9	J-8	J-7	540.60	2.69	0.00	2.21	1.97	1.97

P U M P / L O S S E L E M E N T R E S U L T S

INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST
(ft)	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)
IPSH	NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST
ave	NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST
(ft)	NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST

Pump-1	417.20	1057.54	1168.44	110.9	75.00	12.	0.6	1.2	**	**
1090.6										
Pump-2	540.60	108.69	334.96	226.3	75.00	31.	1.5	3.1	**	**
141.8										

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1117.46	998.50	118.96	51.55
COUNTY HOU		----	1145.49	1009.00	136.49	59.14
J-1		0.00	1115.22	1028.00	87.22	37.80
J-10		0.00	1145.49	1020.00	125.49	54.38
J-11		0.00	1158.55	960.00	198.55	86.04
J-12		0.00	1163.50	785.00	378.50	164.02
J-13		0.00	1059.41	950.00	109.41	47.41
J-14		0.00	1065.18	780.00	285.18	123.58
J-15		0.00	1068.33	780.00	288.33	124.94
J-16		0.00	1078.02	915.00	163.02	70.64
J-17		0.00	1081.04	850.00	231.04	100.12
J-18		0.00	1105.76	990.00	115.76	50.16
J-19		0.00	1287.29	1030.00	257.29	111.49
J-2		0.00	1115.70	1000.00	115.70	50.14
J-20		0.00	1285.77	1050.00	235.77	102.17
J-21		0.00	1273.80	1050.00	223.80	96.98
J-22		0.00	1289.78	1005.00	284.78	123.40
J-23		0.00	1208.39	1090.00	118.39	51.30
J-24		0.00	1208.59	1090.00	118.59	51.39
J-25		0.00	1235.88	1060.00	175.88	76.21
J-26		0.00	1255.57	1020.00	235.57	102.08
J-27		0.00	1264.87	1070.00	194.87	84.45
J-28		0.00	1275.04	1050.00	225.04	97.52
J-29		0.00	1117.46	530.00	587.46	254.57
J-3		0.00	1292.01	1025.00	267.01	115.71
J-30		0.00	1117.46	530.00	587.46	254.57
J-31		0.00	1117.46	565.00	552.46	239.40
J-32		0.00	1117.46	900.00	217.46	94.23
J-33		0.00	1117.46	860.00	257.46	111.57
J-34		0.00	1264.54			
J-35		0.00	1117.46	1000.00	117.46	50.90
J-36		37.50 (0.25)	1145.48	1009.00	136.48	59.14
J-37		52.00 (0.25)	1117.46	998.50	118.96	51.55
J-38		82.00 (0.25)	1208.38			
J-39		0.00	1262.67	1070.00	192.67	83.49
J-4		0.00	1298.53	1010.00	288.53	125.03
J-40		0.00	1252.70	1040.00	212.70	92.17
J-41		0.00	1232.84	1070.00	162.84	70.57
J-42		0.00	1213.51	1130.00	83.51	36.19
J-43		0.00	1218.78	1130.00	88.78	38.47

J-5	0.00	1308.18	1040.00	288.18	112.39
J-6	0.00	1309.36	1050.00	259.36	112.39
J-7	0.00	1315.49	1000.00	315.49	136.71
J-8	0.00	1318.17	1021.00	297.17	128.78
J-9	0.00	1327.32	1040.00	287.32	124.51
PERSIMMON	----	1208.38	1115.00	93.38	40.47
I-Pump-1	0.00	1057.54			
Pump-2	0.00	1329.96	995.00	334.96	145.15
Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1168.44			
I-Pump-2	0.00	1103.69	995.00	108.69	47.10
O-Pump-3	0.00	1117.46	540.00	577.46	250.23

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	254.57	I-Pump-3	4.33
J-30	254.57	J-42	36.19
O-Pump-3	250.23	J-1	37.80

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.45	P-43	0.08
P-27	3.45	P-42	0.24
P-11	2.66	P-12	0.30

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.85	P-43	0.00
P-26	5.85	P-12	0.02
P-19	3.62	P-42	0.04

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.85	P-43	0.00
P-26	5.85	P-12	0.02
P-19	3.62	P-42	0.04

SUMMARY OF INFLOWS AND OUTFLOWS

() INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE	FLOWRATE	NODE
------	----------	------

NAME (gpm) TITLE

CLOYD WILLI 1009.80
 COUNTY HOUS -379.70
 PERSIMMON -458.60
 R-2 0.00

NET SYSTEM INFLOW = 1009.80
 NET SYSTEM OUTFLOW = -838.30
 NET SYSTEM DEMAND = 171.50

TANK STATUS REPORT (time = 1.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-1009.80	1117.46	32.46	598184.	95.5	DRAINING	29.18
COUNTY HOUS (1)	379.70	1145.49	27.49	403730.	88.7	FILLING	29.04
PERSIMMON (1)	458.60	1208.38	18.38	199691.	70.7	FILLING	20.91

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 2.000

CHANGES FOR NEXT SIMULATION (time = 2.0000 hours)

UI COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 2.000

TIME FROM INITIATION OF EPS = 2.0000 HOURS (200 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	941.36	0.00	0.00	0.67	0.08	0.08
P-10	J-9	J-8	534.13	8.94	0.00	2.18	1.93	1.93
P-11	J-1	J-18	407.22	9.05	0.00	2.60	3.46	3.46
P-12	J-10	COUNTY HOU	407.22	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	407.22	12.49	0.00	2.60	3.46	3.46
P-14	J-12	J-11	407.22	4.74	0.00	2.60	3.46	3.46
P-15	J-13	I-Pump-1	407.22	1.79	0.00	2.60	3.46	3.46
P-16	J-14	J-13	407.22	5.52	0.00	2.60	3.46	3.46
P-17	J-15	J-14	407.22	3.01	0.00	2.60	3.46	3.46
P-18	J-16	J-15	407.22	9.27	0.00	2.60	3.46	3.46
P-19	J-17	J-16	407.22	2.89	0.00	2.60	3.46	3.46

P-2	J-1	J-2	-407.22	0.45	0.00	2.60	3.46	3.46
P-20	J-18	J-17	407.22	23.63	0.00	2.60	3.46	3.46
P-21	J-3	J-22	534.13	2.18	0.00	2.18	1.93	1.93
P-22	J-19	J-20	534.13	1.49	0.00	2.18	1.93	1.93
P-23	J-20	J-21	369.26	11.70	0.00	2.36	2.89	2.89
P-24	J-22	J-19	534.13	2.44	0.00	2.18	1.93	1.93
P-25	J-20	J-28	164.87	10.49	0.00	1.87	2.63	2.63
P-26	J-42	J-24	534.13	4.81	0.00	3.41	5.72	5.72
P-27	J-24	J-23	534.13	0.20	0.00	3.41	5.72	5.72
P-28	J-25	J-42	164.87	21.88	0.00	1.87	2.63	2.63
P-29	J-26	J-25	164.87	19.26	0.00	1.87	2.63	2.63
P-3	J-2	I-Pump-2	534.13	11.75	0.00	2.18	1.93	1.93
P-30	J-27	J-26	164.87	9.10	0.00	1.87	2.63	2.63
P-31	J-28	J-27	164.87	9.94	0.00	1.87	2.63	2.63
P-32	J-21	J-34	369.26	9.06	0.00	2.36	2.89	2.89
P-33	O-Pump-1	J-12	407.22	4.73	0.00	2.60	3.46	3.46
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	534.13	2.58	0.00	2.18	1.93	1.93
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	941.36	1.71	0.00	1.50	0.56	0.56
P-42	COUNTY HOU	J-36	31.50	0.00	0.00	0.20	0.03	0.03
P-43	CLOYD WILL	J-37	43.68	0.00	0.00	0.07	0.00	0.00
P-44	J-23	PERSIMMON	534.13	0.01	0.00	2.18	1.93	1.93
P-45	J-34	J-39	369.26	1.83	0.00	2.36	2.89	2.89
P-46	J-39	J-40	369.26	9.75	0.00	2.36	2.89	2.89
P-47	J-40	J-41	369.26	19.42	0.00	2.36	2.89	2.89
P-48	J-41	J-43	369.26	13.75	0.00	2.36	2.89	2.89
P-49	J-43	J-42	369.26	5.15	0.00	2.36	2.89	2.89
P-5	J-4	J-3	534.13	6.38	0.00	2.18	1.93	1.93
P-50	PERSIMMON	J-38	68.88	0.00	0.00	0.28	0.04	0.04
P-6	J-5	J-4	534.13	7.46	0.00	2.18	1.93	1.93
P-7	J-6	J-5	534.13	3.12	0.00	2.18	1.93	1.93
P-8	J-7	J-6	534.13	6.00	0.00	2.18	1.93	1.93
P-9	J-8	J-7	534.13	2.63	0.00	2.18	1.93	1.93

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES	
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)			
Pump-1	407.22	1056.86	1168.99	112.1	75.00	12.	0.6	1.7	**	**
1090.0										
Pump-2	534.13	105.72	334.81	229.1	75.00	31.	1.5	4.6	**	**
138.8										
Device "Pump-3" is closed										

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE

	(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL	----	1114.18	998.50	115.68	50.13
COUNTY HOU	----	1147.04	1009.00	138.04	59.82
J-1	0.00	1112.01	1028.00	84.01	36.41
J-10	0.00	1147.04	1020.00	127.04	55.05
J-11	0.00	1159.52	960.00	199.52	86.46
J-12	0.00	1164.26	785.00	379.26	164.35
J-13	0.00	1058.65	950.00	108.65	47.08
J-14	0.00	1064.16	780.00	284.16	123.14
J-15	0.00	1067.17	780.00	287.17	124.44
J-16	0.00	1076.44	915.00	161.44	69.96
J-17	0.00	1079.33	850.00	229.33	99.38
J-18	0.00	1102.96	990.00	112.96	48.95
J-19	0.00	1288.08	1030.00	258.08	111.84
J-2	0.00	1112.46	1000.00	112.46	48.73
J-20	0.00	1286.60	1050.00	236.60	102.52
J-21	0.00	1274.89	1050.00	224.89	97.45
J-22	0.00	1290.52	1005.00	285.52	123.72
J-23	0.00	1210.92	1090.00	120.92	52.40
J-24	0.00	1211.12	1090.00	121.12	52.49
J-25	0.00	1237.80	1060.00	177.80	77.05
J-26	0.00	1257.07	1020.00	237.07	102.73
J-27	0.00	1266.16	1070.00	196.16	85.00
J-28	0.00	1276.10	1050.00	226.10	97.98
J-29	0.00	1114.17	530.00	584.17	253.14
J-3	0.00	1292.70	1025.00	267.70	116.00
J-30	0.00	1114.17	530.00	584.17	253.14
J-31	0.00	1114.17	565.00	549.17	237.97
J-32	0.00	1114.17	900.00	214.17	92.81
J-33	0.00	1114.17	860.00	254.17	110.14
J-34	0.00	1265.84			
J-35	0.00	1114.17	1000.00	114.17	49.47
J-36	31.50 (0.21)	1147.03	1009.00	138.03	59.82
J-37	43.68 (0.21)	1114.18	998.50	115.68	50.13
J-38	68.88 (0.21)	1210.91			
J-39	0.00	1264.01	1070.00	194.01	84.07
J-4	0.00	1299.08	1010.00	289.08	125.27
J-40	0.00	1254.26	1040.00	214.26	92.85
J-41	0.00	1234.84	1070.00	164.84	71.43
J-42	0.00	1215.93	1130.00	85.93	37.24
J-43	0.00	1221.08	1130.00	91.08	39.47
J-5	0.00	1306.54	1040.00	266.54	115.50
J-6	0.00	1309.66	1050.00	259.66	112.52
J-7	0.00	1315.66	1000.00	315.66	136.79
J-8	0.00	1318.29	1021.00	297.29	128.82
J-9	0.00	1327.23	1040.00	287.23	124.47
PERSIMMON	----	1210.91	1115.00	95.91	41.56
I-Pump-1	0.00	1056.86			
O-Pump-2	0.00	1329.81	995.00	334.81	145.08
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1168.99			
I-Pump-2	0.00	1100.72	995.00	105.72	45.81
O-Pump-3	0.00	1114.17	540.00	574.17	248.81

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
-----	-----	-----	-----

J-29	253.14	I-Pump-3	4.33
J-30	253.14	J-1	36.41
O-Pump-3	248.81	J-42	37.24

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.41	P-43	0.07
P-27	3.41	P-42	0.20
P-11	2.60	P-50	0.28

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.72	P-43	0.00
P-26	5.72	P-12	0.02
P-11	3.46	P-42	0.03

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.72	P-43	0.00
P-26	5.72	P-12	0.02
P-11	3.46	P-42	0.03

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	985.04	
COUNTY HOUS	-375.72	
PERSIMMON	-465.25	
R-2	0.00	

NET SYSTEM INFLOW = 985.04
NET SYSTEM OUTFLOW = -840.98
NET SYSTEM DEMAND = 144.06

TANK STATUS REPORT (time = 2.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-985.04	1114.18	29.18	537596.	85.8	DRAINING	25.97
COUNTY HOUS (1)	375.72	1147.04	29.04	426512.	93.7	FILLING	30.57
PERSIMMON (1)	465.25	1210.91	20.91	227207.	80.4	FILLING	23.48

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 3.000

TIME FROM INITIATION OF EPS = 3.0000 HOURS (300 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	NODE NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL	J-35	924.83	0.00	0.00	0.66	0.08	0.08
P-10	J-9	J-8	527.60	8.74	0.00	2.16	1.89	1.89
P-11	J-1	J-18	397.24	8.64	0.00	2.54	3.30	3.30
P-12	J-10	COUNTY HOU	397.24	0.00	0.00	0.28	0.02	0.02
P-13	J-11	J-10	397.24	11.93	0.00	2.54	3.30	3.30
P-14	J-12	J-11	397.24	4.52	0.00	2.54	3.30	3.30
P-15	J-13	I-Pump-1	397.24	1.71	0.00	2.54	3.30	3.30
P-16	J-14	J-13	397.24	5.27	0.00	2.54	3.30	3.30
P-17	J-15	J-14	397.24	2.87	0.00	2.54	3.30	3.30
P-18	J-16	J-15	397.24	8.85	0.00	2.54	3.30	3.30
P-19	J-17	J-16	397.24	2.76	0.00	2.54	3.30	3.30
P-2	J-1	J-2	-397.24	0.43	0.00	2.54	3.30	3.30
P-20	J-18	J-17	397.24	22.57	0.00	2.54	3.30	3.30
P-21	J-3	J-22	527.60	2.14	0.00	2.16	1.89	1.89
P-22	J-19	J-20	527.60	1.45	0.00	2.16	1.89	1.89
P-23	J-20	J-21	364.74	11.44	0.00	2.33	2.82	2.82
P-24	J-22	J-19	527.60	2.38	0.00	2.16	1.89	1.89
P-25	J-20	J-28	162.86	10.25	0.00	1.85	2.57	2.57
P-26	J-42	J-24	527.60	4.70	0.00	3.37	5.59	5.59
P-27	J-24	J-23	527.60	0.20	0.00	3.37	5.59	5.59
P-28	J-25	J-42	162.86	21.38	0.00	1.85	2.57	2.57
P-29	J-26	J-25	162.86	18.83	0.00	1.85	2.57	2.57
P-3	J-2	I-Pump-2	527.60	11.48	0.00	2.16	1.89	1.89
P-30	J-27	J-26	162.86	8.89	0.00	1.85	2.57	2.57
P-31	J-28	J-27	162.86	9.72	0.00	1.85	2.57	2.57
P-32	J-21	J-34	364.74	8.85	0.00	2.33	2.82	2.82
P-33	O-Pump-1	J-12	397.24	4.52	0.00	2.54	3.30	3.30
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	527.60	2.52	0.00	2.16	1.89	1.89
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	924.83	1.65	0.00	1.48	0.54	0.54
P-42	COUNTY HOU	J-36	31.50	0.00	0.00	0.20	0.03	0.03
P-43	CLOYD WILL	J-37	43.68	0.00	0.00	0.07	0.00	0.00
P-44	J-23	PERSIMMON	527.60	0.01	0.00	2.16	1.89	1.89
P-45	J-34	J-39	364.74	1.79	0.00	2.33	2.82	2.82
P-46	J-39	J-40	364.74	9.53	0.00	2.33	2.82	2.82
P-47	J-40	J-41	364.74	18.98	0.00	2.33	2.82	2.82
P-48	J-41	J-43	364.74	13.44	0.00	2.33	2.82	2.82
P-49	J-43	J-42	364.74	5.04	0.00	2.33	2.82	2.82
P-5	J-4	J-3	527.60	6.23	0.00	2.16	1.89	1.89
P-50	PERSIMMON	J-38	68.88	0.00	0.00	0.28	0.04	0.04
P-6	J-5	J-4	527.60	7.29	0.00	2.16	1.89	1.89
P-7	J-6	J-5	527.60	3.05	0.00	2.16	1.89	1.89
P-8	J-7	J-6	527.60	5.86	0.00	2.16	1.89	1.89

P U M P / L O S S E L E M E N T R E S U L T S

IPS NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
Pump-1	397.24	1056.21	1169.54	113.3	75.00	11.	0.6	2.3	**	**
1089.3										
Pump-2	527.60	102.83	334.70	231.9	75.00	31.	1.5	6.1	**	**
136.0										
Device "Pump-3" is closed										

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1110.97	998.50	112.47	48.74
COUNTY HOU		----	1148.57	1009.00	139.57	60.48
J-1		0.00	1108.88	1028.00	80.88	35.05
J-10		0.00	1148.57	1020.00	128.57	55.71
J-11		0.00	1160.50	960.00	200.50	86.88
J-12		0.00	1165.02	785.00	380.02	164.68
J-13		0.00	1057.91	950.00	107.91	46.76
J-14		0.00	1063.18	780.00	283.18	122.71
J-15		0.00	1066.05	780.00	286.05	123.96
J-16		0.00	1074.91	915.00	159.91	69.29
J-17		0.00	1077.67	850.00	227.67	98.66
J-18		0.00	1100.24	990.00	110.24	47.77
J-19		0.00	1288.91	1030.00	258.91	112.19
J-2		0.00	1109.31	1000.00	109.31	47.37
J-20		0.00	1287.46	1050.00	237.46	102.90
J-21		0.00	1276.02	1050.00	226.02	97.94
J-22		0.00	1291.29	1005.00	286.29	124.06
J-23		0.00	1213.49	1090.00	123.49	53.51
J-24		0.00	1213.69	1090.00	123.69	53.60
J-25		0.00	1239.77	1060.00	179.77	77.90
J-26		0.00	1258.59	1020.00	238.59	103.39
J-27		0.00	1267.49	1070.00	197.49	85.58
J-28		0.00	1277.20	1050.00	227.20	98.46
J-29		0.00	1110.96	530.00	580.96	251.75
J-3		0.00	1293.43	1025.00	268.43	116.32
J-30		0.00	1110.96	530.00	580.96	251.75
J-31		0.00	1110.96	565.00	545.96	236.58
J-32		0.00	1110.96	900.00	210.96	91.42
J-33		0.00	1110.96	860.00	250.96	108.75
J-34		0.00	1267.17			
J-35		0.00	1110.96	1000.00	110.96	48.08
J-36		31.50 (0.21)	1148.57	1009.00	139.57	60.48
J-37		43.68 (0.21)	1110.97	998.50	112.47	48.74
J-38		68.88 (0.21)	1213.48			
J-39		0.00	1265.38	1070.00	195.38	84.67
J-4		0.00	1299.66	1010.00	289.66	125.52

J-40	0.00	1255.85	1040.00	215.85	93.54
J-41	0.00	1236.87	1070.00	166.87	72.31
J-42	0.00	1218.38	1130.00	88.38	38.30
J-43	0.00	1223.42	1130.00	93.42	40.48
J-5	0.00	1306.95	1040.00	266.95	115.68
J-6	0.00	1310.01	1050.00	260.01	112.67
J-7	0.00	1315.87	1000.00	315.87	136.88
J-8	0.00	1318.44	1021.00	297.44	128.89
J-9	0.00	1327.18	1040.00	287.18	124.44
PERSIMMON	----	1213.48	1115.00	98.48	42.68
I-Pump-1	0.00	1056.21			
O-Pump-2	0.00	1329.70	995.00	334.70	145.04
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1169.54			
I-Pump-2	0.00	1097.83	995.00	102.83	44.56
O-Pump-3	0.00	1110.96	540.00	570.96	247.42

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	251.75	I-Pump-3	4.33
J-30	251.75	J-1	35.05
O-Pump-3	247.42	J-42	38.30

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.37	P-43	0.07
P-27	3.37	P-42	0.20
P-11	2.54	P-50	0.28

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.59	P-43	0.00
P-26	5.59	P-12	0.02
P-11	3.30	P-42	0.03

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.59	P-43	0.00
P-26	5.59	P-12	0.02
P-11	3.30	P-42	0.03

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	968.51	
COUNTY HOUS	-365.74	
PERSIMMON	-458.72	
R-2	0.00	

NET SYSTEM INFLOW = 968.51
 NET SYSTEM OUTFLOW = -824.45
 NET SYSTEM DEMAND = 144.06

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-1	CLOSED	J-10	1148.57	1140.00

Time: 3.000

TIME FROM INITIATION OF EPS = 3.0000 HOURS (300 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	528.83	0.00	0.00	0.38	0.03	0.03
P-10	J-9	J-8	528.83	8.78	0.00	2.16	1.89	1.89
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	528.83	2.14	0.00	2.16	1.89	1.89
P-22	J-19	J-20	528.83	1.46	0.00	2.16	1.89	1.89
P-23	J-20	J-21	365.59	11.49	0.00	2.33	2.83	2.83
P-24	J-22	J-19	528.83	2.39	0.00	2.16	1.89	1.89
P-25	J-20	J-28	163.24	10.30	0.00	1.85	2.58	2.58
P-26	J-42	J-24	528.82	4.72	0.00	3.38	5.61	5.61
P-27	J-24	J-23	528.82	0.20	0.00	3.38	5.61	5.61
P-28	J-25	J-42	163.24	21.48	0.00	1.85	2.58	2.58
P-29	J-26	J-25	163.24	18.91	0.00	1.85	2.58	2.58
P-3	J-2	I-Pump-2	528.83	11.53	0.00	2.16	1.89	1.89
P-30	J-27	J-26	163.24	8.93	0.00	1.85	2.58	2.58

P-31	J-28	J-27	163.24	9.76	0.00	1.85	2.58	2.58
P-32	J-21	J-34	365.59	8.89	0.00	2.33	2.83	2.83
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	528.83	2.53	0.00	2.16	1.89	1.89
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	528.83	0.59	0.00	0.84	0.19	0.19
P-42	COUNTY HOU	J-36	31.50	0.00	0.00	0.20	0.03	0.03
P-43	CLOYD WILL	J-37	43.68	0.00	0.00	0.07	0.00	0.00
P-44	J-23	PERSIMMON	528.82	0.01	0.00	2.16	1.89	1.89
P-45	J-34	J-39	365.59	1.79	0.00	2.33	2.83	2.83
P-46	J-39	J-40	365.59	9.57	0.00	2.33	2.83	2.83
P-47	J-40	J-41	365.59	19.07	0.00	2.33	2.83	2.83
P-48	J-41	J-43	365.59	13.50	0.00	2.33	2.83	2.83
P-49	J-43	J-42	365.59	5.06	0.00	2.33	2.83	2.83
P-5	J-4	J-3	528.83	6.26	0.00	2.16	1.89	1.89
P-50	PERSIMMON	J-38	68.88	0.00	0.00	0.28	0.04	0.04
P-6	J-5	J-4	528.83	7.33	0.00	2.16	1.89	1.89
P-7	J-6	J-5	528.83	3.07	0.00	2.16	1.89	1.89
P-8	J-7	J-6	528.83	5.89	0.00	2.16	1.89	1.89
P-9	J-8	J-7	528.83	2.58	0.00	2.16	1.89	1.89

P U M P / L O S S E L E M E N T R E S U L T S

NPS NAME	FLOWRATE (gpm)	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
		HEAD (ft)	HEAD (ft)	HEAD (ft)	ENCY (%)	POWER (Hp)	COST (\$)	COST (\$)	PARALLEL	SERIES

Device "Pump-1" is closed

Pump-2 528.83 103.85 335.20 231.4 75.00 31. 1.5 7.7 ** **

137.0

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1110.97	998.50	112.47	48.74
COUNTY HOU		----	1148.57	1009.00	139.57	60.48
J-1		0.00	1110.38	1028.00	82.38	35.70
J-10		0.00	1148.57	1020.00	128.57	55.71
J-11		0.00	1148.57	960.00	188.57	81.71
J-12		0.00	1148.57	785.00	363.57	157.55
J-13		0.00	1110.38	950.00	160.38	69.50
J-14		0.00	1110.38	780.00	330.38	143.16
J-15		0.00	1110.38	780.00	330.38	143.16
J-16		0.00	1110.38	915.00	195.38	84.66
J-17		0.00	1110.38	850.00	260.38	112.83
J-18		0.00	1110.38	990.00	120.38	52.16

J-19	0.00	1289.24	1030.00	259.24	112.34
J-2	0.00	1110.38	1000.00	110.38	47.83
J-20	0.00	1287.78	1050.00	237.78	103.04
J-21	0.00	1276.29	1050.00	226.29	98.06
J-22	0.00	1291.63	1005.00	286.63	124.21
J-23	0.00	1213.49	1090.00	123.49	53.51
J-24	0.00	1213.69	1090.00	123.69	53.60
J-25	0.00	1239.88	1060.00	179.88	77.95
J-26	0.00	1258.79	1020.00	238.79	103.48
J-27	0.00	1267.72	1070.00	197.72	85.68
J-28	0.00	1277.48	1050.00	227.48	98.57
J-29	0.00	1110.97	530.00	580.97	251.75
J-3	0.00	1293.77	1025.00	268.77	116.47
J-30	0.00	1110.97	530.00	580.97	251.75
J-31	0.00	1110.97	565.00	545.97	236.59
J-32	0.00	1110.97	900.00	210.97	91.42
J-33	0.00	1110.97	860.00	250.97	108.75
J-34	0.00	1267.40			
J-35	0.00	1110.97	1000.00	110.97	48.09
J-36	31.50 (0.21)	1148.57	1009.00	139.57	60.48
J-37	43.68 (0.21)	1110.97	998.50	112.47	48.74
J-38	68.88 (0.21)	1213.48			
J-39	0.00	1265.61	1070.00	195.61	84.76
J-4	0.00	1300.03	1010.00	290.03	125.68
J-40	0.00	1256.03	1040.00	216.03	93.61
J-41	0.00	1236.97	1070.00	166.97	72.35
J-42	0.00	1218.41	1130.00	88.41	38.31
J-43	0.00	1223.47	1130.00	93.47	40.50
J-5	0.00	1307.36	1040.00	267.36	115.86
J-6	0.00	1310.42	1050.00	260.42	112.85
J-7	0.00	1316.31	1000.00	316.31	137.07
J-8	0.00	1318.89	1021.00	297.89	129.09
J-9	0.00	1327.67	1040.00	287.67	124.66
PERSIMMON	----	1213.48	1115.00	98.48	42.68
Pump-1	0.00	1110.38			
Pump-2	0.00	1330.20	995.00	335.20	145.25
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1148.57			
I-Pump-2	0.00	1098.85	995.00	103.85	45.00
O-Pump-3	0.00	1110.97	540.00	570.97	247.42

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	251.75	I-Pump-3	4.33
J-30	251.75	J-1	35.70
O-Pump-3	247.42	J-42	38.31

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.38	P-43	0.07
P-27	3.38	P-42	0.20
P-23	2.33	P-50	0.28

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.61	P-43	0.00
P-26	5.61	P-1	0.03
P-46	2.83	P-42	0.03

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.61	P-43	0.00
P-26	5.61	P-1	0.03
P-46	2.83	P-42	0.03

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	572.51	
COUNTY HOUS	31.50	
PERSIMMON	-459.94	
R-2	0.00	

NET SYSTEM INFLOW = 604.01
 NET SYSTEM OUTFLOW = -459.94
 NET SYSTEM DEMAND = 144.06

T A N K S T A T U S R E P O R T (time = 3.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-572.51	1110.97	25.97	478494.	76.4	DRAINING	24.12
COUNTY HOUS (1)	-31.50	1148.57	30.57	449055.	98.6	DRAINING	30.44
PERSIMMON (1)	459.94	1213.48	23.48	255123.	90.3	FILLING	26.00

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

time: 3.991

TIME FROM INITIATION OF EPS = 3.9906 HOURS (399 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

Device "Pump-1" is closed

Pump-2 523.79 102.22 335.67 233.5 75.00 31. 1.5 9.2 ** **

135.3

Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1109.12	998.50	110.62	47.94
COUNTY HOU		----	1148.44	1009.00	139.44	60.43
J-1		0.00	1108.54	1028.00	80.54	34.90
J-10		0.00	1148.44	1020.00	128.44	55.66
J-11		0.00	1148.44	960.00	188.44	81.66
J-12		0.00	1148.44	785.00	363.44	157.49
J-13		0.00	1108.54	950.00	158.54	68.70
J-14		0.00	1108.54	780.00	328.54	142.37
J-15		0.00	1108.54	780.00	328.54	142.37
J-16		0.00	1108.54	915.00	193.54	83.87
J-17		0.00	1108.54	850.00	258.54	112.04
J-18		0.00	1108.54	990.00	118.54	51.37
J-19		0.00	1290.42	1030.00	260.42	112.85
J-2		0.00	1108.54	1000.00	108.54	47.04
J-20		0.00	1288.99	1050.00	238.99	103.56
J-21		0.00	1277.70	1050.00	227.70	98.67
J-22		0.00	1292.77	1005.00	287.77	124.70
J-23		0.00	1216.01	1090.00	126.01	54.60
J-24		0.00	1216.20	1090.00	126.20	54.69
J-25		0.00	1241.93	1060.00	181.93	78.84
J-26		0.00	1260.51	1020.00	240.51	104.22
J-27		0.00	1269.28	1070.00	199.28	86.36
J-28		0.00	1278.87	1050.00	228.87	99.18
J-29		0.00	1109.12	530.00	579.12	250.95
J-3		0.00	1294.88	1025.00	269.88	116.95
J-30		0.00	1109.12	530.00	579.12	250.95
J-31		0.00	1109.12	565.00	544.12	235.79
J-32		0.00	1109.12	900.00	209.12	90.62
J-33		0.00	1109.12	860.00	249.12	107.95
J-34		0.00	1268.97			
J-35		0.00	1109.12	1000.00	109.12	47.29
J-36		31.50 (0.21)	1148.44	1009.00	139.44	60.42
J-37		43.68 (0.21)	1109.12	998.50	110.62	47.94
J-38		68.88 (0.21)	1216.00			
J-39		0.00	1267.21	1070.00	197.21	85.46
J-4		0.00	1301.03	1010.00	291.03	126.11
J-40		0.00	1257.80	1040.00	217.80	94.38
J-41		0.00	1239.07	1070.00	169.07	73.26
J-42		0.00	1220.84	1130.00	90.84	39.36
J-43		0.00	1225.81	1130.00	95.81	41.52
J-5		0.00	1308.22	1040.00	268.22	116.23
J-6		0.00	1311.24	1050.00	261.24	113.20
J-7		0.00	1317.02	1000.00	317.02	137.37
J-8		0.00	1319.55	1021.00	298.55	129.37
J-9		0.00	1328.18	1040.00	288.18	124.88
PERSIMMON		----	1216.00	1115.00	101.00	43.77
Pump-1		0.00	1108.54			
Pump-2		0.00	1330.67	995.00	335.67	145.46
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1148.44			

I-Pump-2	0.00	1097.22	995.00	102.22	44.29
O-Pump-3	0.00	1109.12	540.00	569.12	246.62

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.95	I-Pump-3	4.33
J-30	250.95	J-1	34.90
O-Pump-3	246.62	J-42	39.36

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.34	P-43	0.07
P-27	3.34	P-42	0.20
P-23	2.31	P-50	0.28

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.52	P-43	0.00
P-26	5.52	P-1	0.03
P-23	2.78	P-42	0.03

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.52	P-43	0.00
P-26	5.52	P-1	0.03
P-23	2.78	P-42	0.03

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	567.47	
COUNTY HOUS	31.50	
PERSIMMON	-454.91	
R-2	0.00	

NET SYSTEM INFLOW = 598.97
NET SYSTEM OUTFLOW = -454.91
NET SYSTEM DEMAND = 144.06

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-2	CLOSED	J-23	1216.01	1205.00
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Tank Filled/Emptied

TIME FROM INITIATION OF EPS = 3.9906 HOURS (399 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	31.50	0.00	0.00	0.20	0.03	0.03
P-43	CLOYD WILL	J-37	43.68	0.00	0.00	0.07	0.00	0.00
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00

P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	68.88	0.00	0.00	0.28	0.04	0.04	
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1109.12	998.50	110.62	47.94
COUNTY HOU		----	1148.44	1009.00	139.44	60.43
J-1		0.00	1109.12	1028.00	81.12	35.15
J-10		0.00	1148.44	1020.00	128.44	55.66
J-11		0.00	1148.44	960.00	188.44	81.66
J-12		0.00	1148.44	785.00	363.44	157.49
J-13		0.00	1109.12	950.00	159.12	68.95
J-14		0.00	1109.12	780.00	329.12	142.62
J-15		0.00	1109.12	780.00	329.12	142.62
J-16		0.00	1109.12	915.00	194.12	84.12
J-17		0.00	1109.12	850.00	259.12	112.29
J-18		0.00	1109.12	990.00	119.12	51.62
J-19		0.00	1216.00	1030.00	186.00	80.60
J-2		0.00	1109.12	1000.00	109.12	47.29
J-20		0.00	1216.00	1050.00	166.00	71.93
J-21		0.00	1216.00	1050.00	166.00	71.93
J-22		0.00	1216.00	1005.00	211.00	91.43
J-23		0.00	1216.00	1090.00	126.00	54.60
J-24		0.00	1216.00	1090.00	126.00	54.60
J-25		0.00	1216.00	1060.00	156.00	67.60
J-26		0.00	1216.00	1020.00	196.00	84.93
J-27		0.00	1216.00	1070.00	146.00	63.27
J-28		0.00	1216.00	1050.00	166.00	71.93
J-29		0.00	1109.12	530.00	579.12	250.95
J-3		0.00	1216.00	1025.00	191.00	82.77
J-30		0.00	1109.12	530.00	579.12	250.95
J-31		0.00	1109.12	565.00	544.12	235.79
J-32		0.00	1109.12	900.00	209.12	90.62

J-33	0.00	1109.12	860.00	249.12	107.95
J-34	0.00	1216.00			
J-35	0.00	1109.12	1000.00	109.12	47.29
J-36	31.50 (0.21)	1148.44	1009.00	139.44	60.42
J-37	43.68 (0.21)	1109.12	998.50	110.62	47.94
J-38	68.88 (0.21)	1216.00			
J-39	0.00	1216.00	1070.00	146.00	63.27
J-4	0.00	1216.00	1010.00	206.00	89.27
J-40	0.00	1216.00	1040.00	176.00	76.27
J-41	0.00	1216.00	1070.00	146.00	63.27
J-42	0.00	1216.00	1130.00	86.00	37.27
J-43	0.00	1216.00	1130.00	86.00	37.27
J-5	0.00	1216.00	1040.00	176.00	76.27
J-6	0.00	1216.00	1050.00	166.00	71.93
J-7	0.00	1216.00	1000.00	216.00	93.60
J-8	0.00	1216.00	1021.00	195.00	84.50
J-9	0.00	1216.00	1040.00	176.00	76.27
PERSIMMON	----	1216.00	1115.00	101.00	43.77
I-Pump-1	0.00	1109.12			
O-Pump-2	0.00	1216.00	995.00	221.00	95.77
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1148.44			
I-Pump-2	0.00	1109.12	995.00	114.12	49.45
O-Pump-3	0.00	1109.12	540.00	569.12	246.62

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.95	I-Pump-3	4.33
J-30	250.95	J-1	35.15
O-Pump-3	246.62	J-42	37.27

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.28	P-43	0.07
P-42	0.20	P-42	0.20

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.04	P-43	0.00
P-42	0.03	P-42	0.03

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.04	P-43	0.00
P-42	0.03	P-42	0.03

P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	39.00	0.00	0.00	0.25	0.04	0.04	0.04
P-43	CLOYD WILL	J-37	54.08	0.00	0.00	0.09	0.00	0.00	0.00
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	85.28	0.00	0.00	0.35	0.06	0.06	0.06
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

WPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1109.12	998.50	110.62	47.94
COUNTY HOU		----	1148.44	1009.00	139.44	60.42
J-1		0.00	1109.12	1028.00	81.12	35.15
J-10		0.00	1148.44	1020.00	128.44	55.66
J-11		0.00	1148.44	960.00	188.44	81.66
J-12		0.00	1148.44	785.00	363.44	157.49
J-13		0.00	1109.12	950.00	159.12	68.95
J-14		0.00	1109.12	780.00	329.12	142.62
J-15		0.00	1109.12	780.00	329.12	142.62
J-16		0.00	1109.12	915.00	194.12	84.12
J-17		0.00	1109.12	850.00	259.12	112.29
J-18		0.00	1109.12	990.00	119.12	51.62
J-19		0.00	1216.00	1030.00	186.00	80.60
J-2		0.00	1109.12	1000.00	109.12	47.29
J-20		0.00	1216.00	1050.00	166.00	71.93
J-21		0.00	1216.00	1050.00	166.00	71.93
J-22		0.00	1216.00	1005.00	211.00	91.43
J-23		0.00	1216.00	1090.00	126.00	54.60
J-24		0.00	1216.00	1090.00	126.00	54.60
J-25		0.00	1216.00	1060.00	156.00	67.60
J-26		0.00	1216.00	1020.00	196.00	84.93
J-27		0.00	1216.00	1070.00	146.00	63.27
J-28		0.00	1216.00	1050.00	166.00	71.93
J-29		0.00	1109.12	530.00	579.12	250.95
J-3		0.00	1216.00	1025.00	191.00	82.77
J-30		0.00	1109.12	530.00	579.12	250.95
J-31		0.00	1109.12	565.00	544.12	235.79
J-32		0.00	1109.12	900.00	209.12	90.62
J-33		0.00	1109.12	860.00	249.12	107.95
J-34		0.00	1216.00			
J-35		0.00	1109.12	1000.00	109.12	47.29
J-36		39.00 (0.26)	1148.44	1009.00	139.44	60.42
J-37		54.08 (0.26)	1109.12	998.50	110.62	47.94
J-38		85.28 (0.26)	1216.00			
J-39		0.00	1216.00	1070.00	146.00	63.27
J-4		0.00	1216.00	1010.00	206.00	89.27
J-40		0.00	1216.00	1040.00	176.00	76.27
J-41		0.00	1216.00	1070.00	146.00	63.27
J-42		0.00	1216.00	1130.00	86.00	37.27
J-43		0.00	1216.00	1130.00	86.00	37.27
J-5		0.00	1216.00	1040.00	176.00	76.27
J-6		0.00	1216.00	1050.00	166.00	71.93
J-7		0.00	1216.00	1000.00	216.00	93.60
J-8		0.00	1216.00	1021.00	195.00	84.50
J-9		0.00	1216.00	1040.00	176.00	76.27
PERSIMMON		----	1216.00	1115.00	101.00	43.77
I-Pump-1		0.00	1109.12			
O-Pump-2		0.00	1216.00	995.00	221.00	95.77
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1148.44			
I-Pump-2		0.00	1109.12	995.00	114.12	49.45
O-Pump-3		0.00	1109.12	540.00	569.12	246.62

MAXIMUM AND MINIMUM VALUES

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.95	I-Pump-3	4.33
J-30	250.95	J-1	35.15
O-Pump-3	246.62	J-42	37.27

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.35	P-43	0.09
P-42	0.25	P-42	0.25

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.06	P-43	0.00
P-42	0.04	P-42	0.04

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.06	P-43	0.00
P-42	0.04	P-42	0.04

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	54.08	
COUNTY HOUS	39.00	
PERSIMMON	85.28	
R-2	0.00	

NET SYSTEM INFLOW = 178.36
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 178.36

T A N K S T A T U S R E P O R T (time = 4.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-54.08	1109.12	24.12	444442.	70.9	DRAINING	23.94
COUNTY HOUS (1)	-39.00	1148.44	30.44	447165.	98.2	DRAINING	30.28

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 5.000

CHANGES FOR NEXT SIMULATION (time = 5.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 5.000

TIME FROM INITIATION OF EPS = 5.0000 HOURS (500 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD	WILL J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00

P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	54.00	0.00	0.00	0.34	0.08	0.08	0.08
P-43	CLOYD WILL	J-37	74.88	0.00	0.00	0.12	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	118.08	0.00	0.00	0.48	0.12	0.12	0.12
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREM TL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1108.94	998.50	110.44	47.86
COUNTY HOU		----	1148.28	1009.00	139.28	60.36
J-1		0.00	1108.94	1028.00	80.94	35.08
J-10		0.00	1148.28	1020.00	128.28	55.59
J-11		0.00	1148.28	960.00	188.28	81.59
J-12		0.00	1148.28	785.00	363.28	157.42
J-13		0.00	1108.94	950.00	158.94	68.88
J-14		0.00	1108.94	780.00	328.94	142.54
J-15		0.00	1108.94	780.00	328.94	142.54
J-16		0.00	1108.94	915.00	193.94	84.04
J-17		0.00	1108.94	850.00	258.94	112.21
J-18		0.00	1108.94	990.00	118.94	51.54
J-19		0.00	1215.53	1030.00	185.53	80.39
J-2		0.00	1108.94	1000.00	108.94	47.21
J-20		0.00	1215.53	1050.00	165.53	71.73
J-21		0.00	1215.53	1050.00	165.53	71.73
J-22		0.00	1215.53	1005.00	210.53	91.23
J-23		0.00	1215.53	1090.00	125.53	54.39
J-24		0.00	1215.53	1090.00	125.53	54.39
J-25		0.00	1215.53	1060.00	155.53	67.39
J-26		0.00	1215.53	1020.00	195.53	84.73

J-27	0.00	1215.53	1070.00	145.53	63.06
J-28	0.00	1215.53	1050.00	165.53	71.73
J-29	0.00	1108.94	530.00	578.94	250.88
J-3	0.00	1215.53	1025.00	190.53	82.56
J-30	0.00	1108.94	530.00	578.94	250.88
J-31	0.00	1108.94	565.00	543.94	235.71
J-32	0.00	1108.94	900.00	208.94	90.54
J-33	0.00	1108.94	860.00	248.94	107.88
J-34	0.00	1215.53			
J-35	0.00	1108.94	1000.00	108.94	47.21
J-36	54.00 (0.36)	1148.28	1009.00	139.28	60.35
J-37	74.88 (0.36)	1108.94	998.50	110.44	47.86
J-38	118.08 (0.36)	1215.52			
J-39	0.00	1215.53	1070.00	145.53	63.06
J-4	0.00	1215.53	1010.00	205.53	89.06
J-40	0.00	1215.53	1040.00	175.53	76.06
J-41	0.00	1215.53	1070.00	145.53	63.06
J-42	0.00	1215.53	1130.00	85.53	37.06
J-43	0.00	1215.53	1130.00	85.53	37.06
J-5	0.00	1215.53	1040.00	175.53	76.06
J-6	0.00	1215.53	1050.00	165.53	71.73
J-7	0.00	1215.53	1000.00	215.53	93.39
J-8	0.00	1215.53	1021.00	194.53	84.29
J-9	0.00	1215.53	1040.00	175.53	76.06
PERSIMMON	----	1215.53	1115.00	100.53	43.56
I-Pump-1	0.00	1108.94			
O-Pump-2	0.00	1215.53	995.00	220.53	95.56
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1148.28			
I-Pump-2	0.00	1108.94	995.00	113.94	49.38
O-Pump-3	0.00	1108.94	540.00	568.94	246.54

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.88	I-Pump-3	4.33
J-30	250.88	J-1	35.08
O-Pump-3	246.54	J-42	37.06

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.48	P-43	0.12
P-42	0.34	P-42	0.34

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.12	P-43	0.01
P-42	0.08	P-42	0.08

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.12	P-43	0.01
P-42	0.08	P-42	0.08

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	74.88	
COUNTY HOUS	54.00	
PERSIMMON	118.08	
R-2	0.00	

NET SYSTEM INFLOW = 246.96
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 246.96

T A N K S T A T U S R E P O R T (time = 5.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CL WILLI (1)	-74.88	1108.94	23.94	441197.	70.4	DRAINING	23.70
COUNTY HOUS (1)	-54.00	1148.28	30.28	444825.	97.7	DRAINING	30.06
PERSIMMON (1)	-118.08	1215.53	25.53	277304.	98.2	DRAINING	24.87

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 6.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 6.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 6.000

TIME FROM INITIATION OF EPS = 6.0000 HOURS (600 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	N O D E N U M B E R S		F L O W R A T E (gpm)	H E A D L O S S (ft)	M I N O R L O S S (ft)	L I N E V E L O . (ft/s)	H L + M L / 1 0 0 0 (ft/ft)	H L / 1 0 0 0 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	79.50	0.01	0.00	0.51	0.17	0.17
P-43	CLOYD WILL	J-37	110.24	0.00	0.00	0.18	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	173.84	0.00	0.00	0.71	0.24	0.24
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

N P S . A v a i l .	N A M E	F L O W R A T E (gpm)	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
			HEAD (ft)	HEAD (ft)	HEAD (ft)	ENCY (%)	POWER (Hp)	COST (\$)	COST (\$)	PARALLEL	SERIES

(ft)

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1108.70	998.50	110.20	47.75
COUNTY HOU		----	1148.06	1009.00	139.06	60.26
J-1		0.00	1108.70	1028.00	80.70	34.97
J-10		0.00	1148.06	1020.00	128.06	55.49
J-11		0.00	1148.06	960.00	188.06	81.49
J-12		0.00	1148.06	785.00	363.06	157.33
J-13		0.00	1108.70	950.00	158.70	68.77
J-14		0.00	1108.70	780.00	328.70	142.44
J-15		0.00	1108.70	780.00	328.70	142.44
J-16		0.00	1108.70	915.00	193.70	83.94
J-17		0.00	1108.70	850.00	258.70	112.10
J-18		0.00	1108.70	990.00	118.70	51.44
J-19		0.00	1214.87	1030.00	184.87	80.11
J-2		0.00	1108.70	1000.00	108.70	47.10
J-20		0.00	1214.87	1050.00	164.87	71.44
J-21		0.00	1214.87	1050.00	164.87	71.44
J-22		0.00	1214.87	1005.00	209.87	90.94
J-23		0.00	1214.87	1090.00	124.87	54.11
J-24		0.00	1214.87	1090.00	124.87	54.11
J-25		0.00	1214.87	1060.00	154.87	67.11
J-26		0.00	1214.87	1020.00	194.87	84.44
J-27		0.00	1214.87	1070.00	144.87	62.78
J-28		0.00	1214.87	1050.00	164.87	71.44
J-29		0.00	1108.70	530.00	578.70	250.77
J-3		0.00	1214.87	1025.00	189.87	82.28
J-30		0.00	1108.70	530.00	578.70	250.77
J-31		0.00	1108.70	565.00	543.70	235.60
J-32		0.00	1108.70	900.00	208.70	90.44
J-33		0.00	1108.70	860.00	248.70	107.77
J-34		0.00	1214.87			
J-35		0.00	1108.70	1000.00	108.70	47.10
J-36		79.50 (0.53)	1148.05	1009.00	139.05	60.26
J-37		110.24 (0.53)	1108.70	998.50	110.20	47.75
J-38		173.84 (0.53)	1214.87			
J-39		0.00	1214.87	1070.00	144.87	62.78
J-4		0.00	1214.87	1010.00	204.87	88.78
J-40		0.00	1214.87	1040.00	174.87	75.78
J-41		0.00	1214.87	1070.00	144.87	62.78
J-42		0.00	1214.87	1130.00	84.87	36.78
J-43		0.00	1214.87	1130.00	84.87	36.78
J-5		0.00	1214.87	1040.00	174.87	75.78
J-6		0.00	1214.87	1050.00	164.87	71.44
J-7		0.00	1214.87	1000.00	214.87	93.11
J-8		0.00	1214.87	1021.00	193.87	84.01
J-9		0.00	1214.87	1040.00	174.87	75.78
PERSIMMON		----	1214.87	1115.00	99.87	43.28
Pump-1		0.00	1108.70			
Pump-2		0.00	1214.87	995.00	219.87	95.28
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1148.06			

I-Pump-2	0.00	1108.70	995.00	113.70	49.27
O-Pump-3	0.00	1108.70	540.00	568.70	246.44

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.77	I-Pump-3	4.33
J-30	250.77	J-1	34.97
O-Pump-3	246.44	J-42	36.78

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.71	P-43	0.18
P-42	0.51	P-42	0.51

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.24	P-43	0.01
P-42	0.17	P-42	0.17

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.24	P-43	0.01
P-42	0.17	P-42	0.17

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	110.24	
COUNTY HOUS	79.50	
PERSIMMON	173.84	
R-2	0.00	

NET SYSTEM INFLOW = 363.58
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 363.58

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-110.24	1108.70	23.70	436704.	69.7	DRAINING	23.34
COUNTY HOUS(1)	-79.50	1148.06	30.06	441585.	97.0	DRAINING	29.74
SIMMON(1)	-173.84	1214.87	24.87	270219.	95.7	DRAINING	23.91

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 7.000

CHANGES FOR NEXT SIMULATION (time = 7.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 7.000

TIME FROM INITIATION OF EPS = 7.0000 HOURS (700 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00

P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	136.50	0.02	0.00	0.87	0.46	0.46	0.46
P-43	CLOYD WILL	J-37	189.28	0.00	0.00	0.30	0.03	0.03	0.03
P-44	J-23 PERSIMMON		0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	298.48	0.01	0.00	1.22	0.66	0.66	0.66
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREM TL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Ava		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1108.34	998.50	109.84	47.60
COUNTY HOU		----	1147.74	1009.00	138.74	60.12
J-1		0.00	1108.34	1028.00	80.34	34.81
J-10		0.00	1147.74	1020.00	127.74	55.35
J-11		0.00	1147.74	960.00	187.74	81.35
J-12		0.00	1147.74	785.00	362.74	157.19
J-13		0.00	1108.34	950.00	158.34	68.61
J-14		0.00	1108.34	780.00	328.34	142.28
J-15		0.00	1108.34	780.00	328.34	142.28
J-16		0.00	1108.34	915.00	193.34	83.78
J-17		0.00	1108.34	850.00	258.34	111.95
J-18		0.00	1108.34	990.00	118.34	51.28
J-19		0.00	1213.91	1030.00	183.91	79.70
J-2		0.00	1108.34	1000.00	108.34	46.95

J-20	0.00	1213.91	1050.00	163.91	71.03
J-21	0.00	1213.91	1050.00	163.91	71.03
J-22	0.00	1213.91	1005.00	208.91	90.53
J-23	0.00	1213.91	1090.00	123.91	53.70
J-24	0.00	1213.91	1090.00	123.91	53.70
J-25	0.00	1213.91	1060.00	153.91	66.70
J-26	0.00	1213.91	1020.00	193.91	84.03
J-27	0.00	1213.91	1070.00	143.91	62.36
J-28	0.00	1213.91	1050.00	163.91	71.03
J-29	0.00	1108.34	530.00	578.34	250.61
J-3	0.00	1213.91	1025.00	188.91	81.86
J-30	0.00	1108.34	530.00	578.34	250.61
J-31	0.00	1108.34	565.00	543.34	235.45
J-32	0.00	1108.34	900.00	208.34	90.28
J-33	0.00	1108.34	860.00	248.34	107.61
J-34	0.00	1213.91			
J-35	0.00	1108.34	1000.00	108.34	46.95
J-36	136.50 (0.91)	1147.71	1009.00	138.71	60.11
J-37	189.28 (0.91)	1108.34	998.50	109.84	47.60
J-38	298.48 (0.91)	1213.91			
J-39	0.00	1213.91	1070.00	143.91	62.36
J-4	0.00	1213.91	1010.00	203.91	88.36
J-40	0.00	1213.91	1040.00	173.91	75.36
J-41	0.00	1213.91	1070.00	143.91	62.36
J-42	0.00	1213.91	1130.00	83.91	36.36
J-43	0.00	1213.91	1130.00	83.91	36.36
J-5	0.00	1213.91	1040.00	173.91	75.36
J-6	0.00	1213.91	1050.00	163.91	71.03
J-7	0.00	1213.91	1000.00	213.91	92.70
J-8	0.00	1213.91	1021.00	192.91	83.60
J-9	0.00	1213.91	1040.00	173.91	75.36
PERSIMMON	----	1213.91	1115.00	98.91	42.86
I-Pump-1	0.00	1108.34			
O-Pump-2	0.00	1213.91	995.00	218.91	94.86
Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1147.74			
I-Pump-2	0.00	1108.34	995.00	113.34	49.11
O-Pump-3	0.00	1108.34	540.00	568.34	246.28

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.61	I-Pump-3	4.33
J-30	250.61	J-1	34.81
O-Pump-3	246.28	J-42	36.36

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	1.22	P-43	0.30
P-42	0.87	P-42	0.87

H L + M L / 1 0 0 0

PIPE	MAXIMUM	PIPE	MINIMUM
------	---------	------	---------

NUMBER HL+ML/1000
(ft/ft)

P-50 0.66
P-42 0.46

NUMBER HL+ML/1000
(ft/ft)

P-43 0.03
P-42 0.46

HL / 1000

PIPE MAXIMUM
NUMBER HL/1000
(ft/ft)

P-50 0.66
P-42 0.46

PIPE MINIMUM
NUMBER HL/1000
(ft/ft)

P-43 0.03
P-42 0.46

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	189.28	
COUNTY HOUS	136.50	
PERSIMMON	298.48	
R-2	0.00	

NET SYSTEM INFLOW = 624.26
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 624.26

T A N K S T A T U S R E P O R T (time = 7.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-189.28	1108.34	23.34	430090.	68.7	DRAINING	22.73
COUNTY HOUS (1)	-136.50	1147.74	29.74	436815.	95.9	DRAINING	29.18
PERSIMMON (1)	-298.48	1213.91	23.91	259789.	92.0	DRAINING	22.26

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 8.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 8.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 8.000

TIME FROM INITIATION OF EPS = 8.0000 HOURS (800 HOURS, DAY: 1)

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	180.00	0.04	0.00	1.15	0.76	0.76
P-43	CLOYD WILL	J-37	249.60	0.00	0.00	0.40	0.05	0.05
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	393.60	0.01	0.00	1.61	1.10	1.10
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

PUMP/LOSS ELEMENT RESULTS

NPSH		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1107.73	998.50	109.23	47.33
COUNTY HOU		----	1147.18	1009.00	138.18	59.88
J-1		0.00	1107.73	1028.00	79.73	34.55
J-10		0.00	1147.18	1020.00	127.18	55.11
J-11		0.00	1147.18	960.00	187.18	81.11
J-12		0.00	1147.18	785.00	362.18	156.94
J-13		0.00	1107.73	950.00	157.73	68.35
J-14		0.00	1107.73	780.00	327.73	142.01
J-15		0.00	1107.73	780.00	327.73	142.01
J-16		0.00	1107.73	915.00	192.73	83.51
J-17		0.00	1107.73	850.00	257.73	111.68
J-18		0.00	1107.73	990.00	117.73	51.01
J-19		0.00	1212.26	1030.00	182.26	78.98
J-2		0.00	1107.73	1000.00	107.73	46.68
J-20		0.00	1212.26	1050.00	162.26	70.31
J-21		0.00	1212.26	1050.00	162.26	70.31
J-22		0.00	1212.26	1005.00	207.26	89.81
J-23		0.00	1212.26	1090.00	122.26	52.98
J-24		0.00	1212.26	1090.00	122.26	52.98
J-25		0.00	1212.26	1060.00	152.26	65.98
J-26		0.00	1212.26	1020.00	192.26	83.31
J-27		0.00	1212.26	1070.00	142.26	61.65
J-28		0.00	1212.26	1050.00	162.26	70.31
J-29		0.00	1107.73	530.00	577.73	250.35
J-3		0.00	1212.26	1025.00	187.26	81.15
J-30		0.00	1107.73	530.00	577.73	250.35
J-31		0.00	1107.73	565.00	542.73	235.18
J-32		0.00	1107.73	900.00	207.73	90.01
J-33		0.00	1107.73	860.00	247.73	107.35
J-34		0.00	1212.26			
J-35		0.00	1107.73	1000.00	107.73	46.68
J-36		180.00 (1.20)	1147.14	1009.00	138.14	59.86
J-37		249.60 (1.20)	1107.72	998.50	109.22	47.33
J-38		393.60 (1.20)	1212.25			
J-39		0.00	1212.26	1070.00	142.26	61.65
J-4		0.00	1212.26	1010.00	202.26	87.65
J-40		0.00	1212.26	1040.00	172.26	74.65
J-41		0.00	1212.26	1070.00	142.26	61.65
J-42		0.00	1212.26	1130.00	82.26	35.65
J-43		0.00	1212.26	1130.00	82.26	35.65
J-5		0.00	1212.26	1040.00	172.26	74.65
J-6		0.00	1212.26	1050.00	162.26	70.31
J-7		0.00	1212.26	1000.00	212.26	91.98
J-8		0.00	1212.26	1021.00	191.26	82.88

J-9	0.00	1212.26	1040.00	172.26	74.65
PERSIMMON	----	1212.26	1115.00	97.26	42.15
I-Pump-1	0.00	1107.73			
O-Pump-2	0.00	1212.26	995.00	217.26	94.15
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1147.18			
Pump-2	0.00	1107.73	995.00	112.73	48.85
U-Pump-3	0.00	1107.73	540.00	567.73	246.01

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.35	I-Pump-3	4.33
J-30	250.35	J-1	34.55
O-Pump-3	246.01	J-42	35.65

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	1.61	P-43	0.40
P-42	1.15	P-42	1.15

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	1.10	P-43	0.05
P-42	0.76	P-42	0.76

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	1.10	P-43	0.05
P-42	0.76	P-42	0.76

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	249.60	
COUNTY HOUS	180.00	
PERSIMMON	393.60	
R-2	0.00	

P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	195.00	0.04	0.00	1.24	0.88	0.88	0.88
P-43	CLOYD WILL	J-37	270.40	0.00	0.00	0.43	0.06	0.06	0.06
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	426.40	0.01	0.00	1.74	1.27	1.27	1.27
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P A P/L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1106.91	998.50	108.41	46.98
COUNTY HOU		----	1146.44	1009.00	137.44	59.56
J-1		0.00	1106.91	1028.00	78.91	34.20
J-10		0.00	1146.44	1020.00	126.44	54.79
J-11		0.00	1146.44	960.00	186.44	80.79
J-12		0.00	1146.44	785.00	361.44	156.63
J-13		0.00	1106.91	950.00	156.91	68.00

J-14	0.00	1106.91	780.00	326.91	141.66
J-15	0.00	1106.91	780.00	326.91	141.66
J-16	0.00	1106.91	915.00	191.91	83.16
J-17	0.00	1106.91	850.00	256.91	111.33
J-18	0.00	1106.91	990.00	116.91	50.66
J-19	0.00	1210.09	1030.00	180.09	78.04
J-2	0.00	1106.91	1000.00	106.91	46.33
J-20	0.00	1210.09	1050.00	160.09	69.37
J-21	0.00	1210.09	1050.00	160.09	69.37
J-22	0.00	1210.09	1005.00	205.09	88.87
J-23	0.00	1210.09	1090.00	120.09	52.04
J-24	0.00	1210.09	1090.00	120.09	52.04
J-25	0.00	1210.09	1060.00	150.09	65.04
J-26	0.00	1210.09	1020.00	190.09	82.37
J-27	0.00	1210.09	1070.00	140.09	60.71
J-28	0.00	1210.09	1050.00	160.09	69.37
J-29	0.00	1106.91	530.00	576.91	250.00
J-3	0.00	1210.09	1025.00	185.09	80.21
J-30	0.00	1106.91	530.00	576.91	250.00
J-31	0.00	1106.91	565.00	541.91	234.83
J-32	0.00	1106.91	900.00	206.91	89.66
J-33	0.00	1106.91	860.00	246.91	107.00
J-34	0.00	1210.09			
J-35	0.00	1106.91	1000.00	106.91	46.33
J-36	195.00 (1.30)	1146.40	1009.00	137.40	59.54
J-37	270.40 (1.30)	1106.91	998.50	108.41	46.98
J-38	426.40 (1.30)	1210.08			
J-39	0.00	1210.09	1070.00	140.09	60.71
J-4	0.00	1210.09	1010.00	200.09	86.71
J-40	0.00	1210.09	1040.00	170.09	73.71
J-41	0.00	1210.09	1070.00	140.09	60.71
J-42	0.00	1210.09	1130.00	80.09	34.71
J-43	0.00	1210.09	1130.00	80.09	34.71
J-5	0.00	1210.09	1040.00	170.09	73.71
J-6	0.00	1210.09	1050.00	160.09	69.37
J-7	0.00	1210.09	1000.00	210.09	91.04
J-8	0.00	1210.09	1021.00	189.09	81.94
J-9	0.00	1210.09	1040.00	170.09	73.71
PERSIMMON	----	1210.09	1115.00	95.09	41.21
I-Pump-1	0.00	1106.91			
O-Pump-2	0.00	1210.09	995.00	215.09	93.21
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1146.44			
I-Pump-2	0.00	1106.91	995.00	111.91	48.50
O-Pump-3	0.00	1106.91	540.00	566.91	245.66

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.00	I-Pump-3	4.33
J-30	250.00	J-1	34.20
O-Pump-3	245.66	J-42	34.71

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
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P-50	1.74	P-43	0.43
P-42	1.24	P-42	1.24

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	1.27	P-43	0.06
P-42	0.88	P-42	0.88

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	1.27	P-43	0.06
P-42	0.88	P-42	0.88

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	270.40	
COUNTY HOUS	195.00	
PERSIMMON	426.40	
R-2	0.00	

NET SYSTEM INFLOW = 891.80
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 891.80

T A N K S T A T U S R E P O R T (time = 9.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-270.40	1106.91	21.91	403757.	64.4	DRAINING	21.03
COUNTY HOUS (1)	-195.00	1146.44	28.44	417825.	91.8	DRAINING	27.65
PERSIMMON (1)	-426.40	1210.09	20.09	218264.	77.3	DRAINING	17.74

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 10.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 10.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

Time: 10.000

TIME FROM INITIATION OF EPS = 10.0000 HOURS (1000 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9 J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3 J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19 J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20 J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22 J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20 J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42 J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24 J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26 J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2 I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27 J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28 J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21 J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1 J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3 J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3 R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30 J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29 J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31 J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33 J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2 J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32 J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU J-36	201.00	0.05	0.00	1.28	0.94	0.94
P-43	CLOYD WILL J-37	278.72	0.00	0.00	0.44	0.06	0.06
P-44	J-23 PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34 J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39 J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40 J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41 J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4 J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON J-38	439.52	0.01	0.00	1.80	1.34	1.34
P-6	J-5 J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6 J-5	0.00	0.00	0.00	0.00	0.00	0.00

P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)										

 Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1106.03	998.50	107.53	46.60
COUNTY HOU		----	1145.65	1009.00	136.65	59.21
J-1		0.00	1106.03	1028.00	78.03	33.81
J-10		0.00	1145.65	1020.00	125.65	54.45
J-11		0.00	1145.65	960.00	185.65	80.45
J-12		0.00	1145.65	785.00	360.65	156.28
J-13		0.00	1106.03	950.00	156.03	67.61
J-14		0.00	1106.03	780.00	326.03	141.28
J-15		0.00	1106.03	780.00	326.03	141.28
J-16		0.00	1106.03	915.00	191.03	82.78
J-17		0.00	1106.03	850.00	256.03	110.95
J-18		0.00	1106.03	990.00	116.03	50.28
J-19		0.00	1207.74	1030.00	177.74	77.02
J-2		0.00	1106.03	1000.00	106.03	45.95
J-20		0.00	1207.74	1050.00	157.74	68.35
J-21		0.00	1207.74	1050.00	157.74	68.35
J-22		0.00	1207.74	1005.00	202.74	87.85
J-23		0.00	1207.74	1090.00	117.74	51.02
J-24		0.00	1207.74	1090.00	117.74	51.02
J-25		0.00	1207.74	1060.00	147.74	64.02
J-26		0.00	1207.74	1020.00	187.74	81.35
J-27		0.00	1207.74	1070.00	137.74	59.69
J-28		0.00	1207.74	1050.00	157.74	68.35
J-29		0.00	1106.03	530.00	576.03	249.61
J-3		0.00	1207.74	1025.00	182.74	79.19
J-30		0.00	1106.03	530.00	576.03	249.61
J-31		0.00	1106.03	565.00	541.03	234.45
J-32		0.00	1106.03	900.00	206.03	89.28
J-33		0.00	1106.03	860.00	246.03	106.61
J-34		0.00	1207.74			
J-35		0.00	1106.03	1000.00	106.03	45.95
J-36		201.00 (1.34)	1145.60	1009.00	136.60	59.19
J-37		278.72 (1.34)	1106.03	998.50	107.53	46.60
J-38		439.52 (1.34)	1207.72			
J-39		0.00	1207.74	1070.00	137.74	59.69
J-4		0.00	1207.74	1010.00	197.74	85.69
J-40		0.00	1207.74	1040.00	167.74	72.69

J-41	0.00	1207.74	1070.00	137.74	59.69
J-42	0.00	1207.74	1130.00	77.74	33.69
J-43	0.00	1207.74	1130.00	77.74	33.69
J-5	0.00	1207.74	1040.00	167.74	72.69
J-6	0.00	1207.74	1050.00	157.74	68.35
J-7	0.00	1207.74	1000.00	207.74	90.02
J-8	0.00	1207.74	1021.00	186.74	80.92
J-9	0.00	1207.74	1040.00	167.74	72.69
PERSIMMON	----	1207.74	1115.00	92.74	40.19
I-Pump-1	0.00	1106.03			
O-Pump-2	0.00	1207.74	995.00	212.74	92.19
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1145.65			
I-Pump-2	0.00	1106.03	995.00	111.03	48.11
O-Pump-3	0.00	1106.03	540.00	566.03	245.28

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.61	I-Pump-3	4.33
J-30	249.61	J-42	33.69
O-Pump-3	245.28	J-43	33.69

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	1.80	P-43	0.44
P-42	1.28	P-42	1.28

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	1.34	P-43	0.06
P-42	0.94	P-42	0.94

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	1.34	P-43	0.06
P-42	0.94	P-42	0.94

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+, INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE FLOWRATE NODE

NAME	(gpm)	TITLE
CLOYD WILLI	278.72	
COUNTY HOUS	201.00	
PERSIMMON	439.52	
R-2	0.00	

NF SYSTEM INFLOW = 919.24
 NE SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 919.24

TANK STATUS REPORT (time = 10.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-278.72	1106.03	21.03	387533.	61.9	DRAINING	20.12
COUNTY HOUS(1)	-201.00	1145.65	27.65	406125.	89.2	DRAINING	26.83
PERSIMMON(1)	-439.52	1207.74	17.74	192680.	68.2	DRAINING	15.31

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 11.000

TIME FROM INITIATION OF EPS = 11.0000 HOURS (1100 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	NODE NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00

P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	201.00	0.05	0.00	1.28	0.94	0.94	0.94
P-43	CLOYD WILL	J-37	278.72	0.00	0.00	0.44	0.06	0.06	0.06
P-44	J-23 PERSIMMON		0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	439.52	0.01	0.00	1.80	1.34	1.34	1.34
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPS		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)										

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.12	998.50	106.62	46.20
COUNTY HOU		----	1144.83	1009.00	135.83	58.86
J-1		0.00	1105.12	1028.00	77.12	33.42
J-10		0.00	1144.83	1020.00	124.83	54.09
J-11		0.00	1144.83	960.00	184.83	80.09
J-12		0.00	1144.83	785.00	359.83	155.93
J-13		0.00	1105.12	950.00	155.12	67.22
J-14		0.00	1105.12	780.00	325.12	140.89
J-15		0.00	1105.12	780.00	325.12	140.89
J-16		0.00	1105.12	915.00	190.12	82.39
J-17		0.00	1105.12	850.00	255.12	110.55
J-18		0.00	1105.12	990.00	115.12	49.89
J-19		0.00	1205.31	1030.00	175.31	75.97

J-2	0.00	1105.12	1000.00	105.12	45.55
J-20	0.00	1205.31	1050.00	155.31	67.30
J-21	0.00	1205.31	1050.00	155.31	67.30
J-22	0.00	1205.31	1005.00	200.31	86.80
J-23	0.00	1205.31	1090.00	115.31	49.97
J-24	0.00	1205.31	1090.00	115.31	49.97
J-25	0.00	1205.31	1060.00	145.31	62.97
J-26	0.00	1205.31	1020.00	185.31	80.30
J-27	0.00	1205.31	1070.00	135.31	58.63
J-28	0.00	1205.31	1050.00	155.31	67.30
J-29	0.00	1105.12	530.00	575.12	249.22
J-3	0.00	1205.31	1025.00	180.31	78.13
J-30	0.00	1105.12	530.00	575.12	249.22
J-31	0.00	1105.12	565.00	540.12	234.05
J-32	0.00	1105.12	900.00	205.12	88.89
J-33	0.00	1105.12	860.00	245.12	106.22
J-34	0.00	1205.31			
J-35	0.00	1105.12	1000.00	105.12	45.55
J-36	201.00 (1.34)	1144.78	1009.00	135.78	58.84
J-37	278.72 (1.34)	1105.12	998.50	106.62	46.20
J-38	439.52 (1.34)	1205.29			
J-39	0.00	1205.31	1070.00	135.31	58.63
J-4	0.00	1205.31	1010.00	195.31	84.63
J-40	0.00	1205.31	1040.00	165.31	71.63
J-41	0.00	1205.31	1070.00	135.31	58.63
J-42	0.00	1205.31	1130.00	75.31	32.63
J-43	0.00	1205.31	1130.00	75.31	32.63
J-5	0.00	1205.31	1040.00	165.31	71.63
J-6	0.00	1205.31	1050.00	155.31	67.30
J-7	0.00	1205.31	1000.00	205.31	88.97
J-8	0.00	1205.31	1021.00	184.31	79.87
J-9	0.00	1205.31	1040.00	165.31	71.63
PERSIMMON	----	1205.31	1115.00	90.31	39.13
I-Pump-1	0.00	1105.12			
Pump-2	0.00	1205.31	995.00	210.31	91.13
Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.83			
I-Pump-2	0.00	1105.12	995.00	110.12	47.72
O-Pump-3	0.00	1105.12	540.00	565.12	244.89

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.22	I-Pump-3	4.33
J-30	249.22	J-42	32.63
O-Pump-3	244.89	J-43	32.63

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	1.80	P-43	0.44
P-42	1.28	P-42	1.28

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)
P-50	1.34
P-42	0.94

PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-43	0.06
P-42	0.94

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)
P-50	1.34
P-42	0.94

PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-43	0.06
P-42	0.94

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	278.72	
COUNTY HOUS	201.00	
PERSIMMON	439.52	
R-2	0.00	

NET SYSTEM INFLOW = 919.24
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 919.24

T A N K S T A T U S R E P O R T (time = 11.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-278.72	1105.12	20.12	370810.	59.2	DRAINING	19.22
COUNTY HOUS (1)	-201.00	1144.83	26.83	394065.	86.5	DRAINING	26.01
PERSIMMON (1)	-439.52	1205.31	15.31	166309.	58.9	DRAINING	12.88

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 12.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 12.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

LOADING DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 12.000

TIME FROM INITIATION OF EPS = 12.0000 HOURS (1200 HOURS, DAY: 1)

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9 J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3 J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19 J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20 J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22 J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20 J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42 J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24 J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26 J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2 I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27 J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28 J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21 J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1 J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3 J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3 R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30 J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29 J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31 J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33 J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2 J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32 J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU J-36	198.00	0.05	0.00	1.26	0.91	0.91
P-43	CLOYD WILL J-37	274.56	0.00	0.00	0.44	0.06	0.06
P-44	J-23 PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34 J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39 J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40 J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41 J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4 J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON J-38	432.96	0.01	0.00	1.77	1.31	1.31
P-6	J-5 J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6 J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7 J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8 J-7	0.00	0.00	0.00	0.00	0.00	0.00

PUMPL/LOSS ELEMENT RESULTS

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

 Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1104.22	998.50	105.72	45.81
COUNTY HOU		----	1144.01	1009.00	135.01	58.50
J-1		0.00	1104.22	1028.00	76.22	33.03
J-10		0.00	1144.01	1020.00	124.01	53.74
J-11		0.00	1144.01	960.00	184.01	79.74
J-12		0.00	1144.01	785.00	359.01	155.57
J-13		0.00	1104.22	950.00	154.22	66.83
J-14		0.00	1104.22	780.00	324.22	140.49
J-15		0.00	1104.22	780.00	324.22	140.49
J-16		0.00	1104.22	915.00	189.22	81.99
J-17		0.00	1104.22	850.00	254.22	110.16
J-18		0.00	1104.22	990.00	114.22	49.49
J-19		0.00	1202.88	1030.00	172.88	74.92
J-2		0.00	1104.22	1000.00	104.22	45.16
J-20		0.00	1202.88	1050.00	152.88	66.25
J-21		0.00	1202.88	1050.00	152.88	66.25
J-22		0.00	1202.88	1005.00	197.88	85.75
J-23		0.00	1202.88	1090.00	112.88	48.92
J-24		0.00	1202.88	1090.00	112.88	48.92
J-25		0.00	1202.88	1060.00	142.88	61.92
J-26		0.00	1202.88	1020.00	182.88	79.25
J-27		0.00	1202.88	1070.00	132.88	57.58
J-28		0.00	1202.88	1050.00	152.88	66.25
J-29		0.00	1104.22	530.00	574.22	248.83
J-3		0.00	1202.88	1025.00	177.88	77.08
J-30		0.00	1104.22	530.00	574.22	248.83
J-31		0.00	1104.22	565.00	539.22	233.66
J-32		0.00	1104.22	900.00	204.22	88.49
J-33		0.00	1104.22	860.00	244.22	105.83
J-34		0.00	1202.88			
J-35		0.00	1104.22	1000.00	104.22	45.16
J-36		198.00 (1.32)	1143.96	1009.00	134.96	58.48
J-37		274.56 (1.32)	1104.21	998.50	105.71	45.81
J-38		432.96 (1.32)	1202.87			
J-39		0.00	1202.88	1070.00	132.88	57.58
J-4		0.00	1202.88	1010.00	192.88	83.58
J-40		0.00	1202.88	1040.00	162.88	70.58
J-41		0.00	1202.88	1070.00	132.88	57.58
J-42		0.00	1202.88	1130.00	72.88	31.58
J-43		0.00	1202.88	1130.00	72.88	31.58
J-5		0.00	1202.88	1040.00	162.88	70.58
J-6		0.00	1202.88	1050.00	152.88	66.25
J-7		0.00	1202.88	1000.00	202.88	87.92

J-8	0.00	1202.88	1021.00	181.88	78.82
J-9	0.00	1202.88	1040.00	162.88	70.58
PERSIMMON	----	1202.88	1115.00	87.88	38.08
I-Pump-1	0.00	1104.22			
O-Pump-2	0.00	1202.88	995.00	207.88	90.08
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
Pump-1	0.00	1144.01			
I-Pump-2	0.00	1104.22	995.00	109.22	47.33
O-Pump-3	0.00	1104.22	540.00	564.22	244.49

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	248.83	I-Pump-3	4.33
J-30	248.83	J-42	31.58
O-Pump-3	244.49	J-43	31.58

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	1.77	P-43	0.44
P-42	1.26	P-42	1.26

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	1.31	P-43	0.06
P-42	0.91	P-42	0.91

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	1.31	P-43	0.06
P-42	0.91	P-42	0.91

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	274.56	
COUNTY HOUS	198.00	
PERSIMMON	432.96	
R-2	0.00	

NET SYSTEM INFLOW = 905.52
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 905.52

Swi Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-2	OPENED	J-23	1202.88	1214.00
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Time: 12.000

TIME FROM INITIATION OF EPS = 12.0000 HOURS (1200 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	533.21	0.00	0.00	0.38	0.03	0.03
P-10	J-9	J-8	533.21	8.91	0.00	2.18	1.92	1.92
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	533.21	2.18	0.00	2.18	1.92	1.92
P-22	J-19	J-20	533.21	1.48	0.00	2.18	1.92	1.92
P-23	J-20	J-21	368.62	11.67	0.00	2.35	2.88	2.88
P-24	J-22	J-19	533.21	2.43	0.00	2.18	1.92	1.92
P-25	J-20	J-28	164.59	10.46	0.00	1.87	2.62	2.62
P-26	J-42	J-24	533.21	4.79	0.00	3.40	5.70	5.70
P-27	J-24	J-23	533.21	0.20	0.00	3.40	5.70	5.70
P-28	J-25	J-42	164.59	21.81	0.00	1.87	2.62	2.62
P-29	J-26	J-25	164.59	19.20	0.00	1.87	2.62	2.62
P-3	J-2	I-Pump-2	533.21	11.71	0.00	2.18	1.92	1.92
P-30	J-27	J-26	164.59	9.07	0.00	1.87	2.62	2.62
P-31	J-28	J-27	164.59	9.91	0.00	1.87	2.62	2.62
P-32	J-21	J-34	368.62	9.03	0.00	2.35	2.88	2.88
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	533.21	2.57	0.00	2.18	1.92	1.92

P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	533.21	0.60	0.00	0.85	0.19	0.19	
P-42	COUNTY HOU	J-36	198.00	0.05	0.00	1.26	0.91	0.91	
P-43	CLOYD WILL	J-37	274.56	0.00	0.00	0.44	0.06	0.06	
P-44	J-23	PERSIMMON	533.21	0.01	0.00	2.18	1.92	1.92	
P-45	J-34	J-39	368.62	1.82	0.00	2.35	2.88	2.88	
P-46	J-39	J-40	368.62	9.72	0.00	2.35	2.88	2.88	
P-47	J-40	J-41	368.62	19.36	0.00	2.35	2.88	2.88	
P-48	J-41	J-43	368.62	13.71	0.00	2.35	2.88	2.88	
P-49	J-43	J-42	368.62	5.14	0.00	2.35	2.88	2.88	
P-5	J-4	J-3	533.21	6.36	0.00	2.18	1.92	1.92	
P-50	PERSIMMON	J-38	432.96	0.01	0.00	1.77	1.31	1.31	
P-6	J-5	J-4	533.21	7.44	0.00	2.18	1.92	1.92	
P-7	J-6	J-5	533.21	3.11	0.00	2.18	1.92	1.92	
P-8	J-7	J-6	533.21	5.98	0.00	2.18	1.92	1.92	
P-9	J-8	J-7	533.21	2.62	0.00	2.18	1.92	1.92	

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREM TL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											

Device "Pump-1" is closed
Pump-2 533.21 96.91 326.40 229.5 75.00 31. 1.5 10.7 ** **
L30
L ce "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1104.22	998.50	105.72	45.81
COUNTY HOU		----	1144.01	1009.00	135.01	58.50
J-1		0.00	1103.62	1028.00	75.62	32.77
J-10		0.00	1144.01	1020.00	124.01	53.74
J-11		0.00	1144.01	960.00	184.01	79.74
J-12		0.00	1144.01	785.00	359.01	155.57
J-13		0.00	1103.62	950.00	153.62	66.57
J-14		0.00	1103.62	780.00	323.62	140.24
J-15		0.00	1103.62	780.00	323.62	140.24
J-16		0.00	1103.62	915.00	188.62	81.74
J-17		0.00	1103.62	850.00	253.62	109.90
J-18		0.00	1103.62	990.00	113.62	49.24
J-19		0.00	1279.80	1030.00	249.80	108.25
J-2		0.00	1103.62	1000.00	103.62	44.90
J-20		0.00	1278.32	1050.00	228.32	98.94
J-21		0.00	1266.65	1050.00	216.65	93.88
J-22		0.00	1282.23	1005.00	277.23	120.13
J-23		0.00	1202.89	1090.00	112.89	48.92
J-24		0.00	1203.09	1090.00	113.09	49.01
J-25		0.00	1229.69	1060.00	169.69	73.53
J-26		0.00	1248.89	1020.00	228.89	99.18
J-27		0.00	1257.95	1070.00	187.95	81.45

J-28	0.00	1267.86	1050.00	217.86	94.41
J-29	0.00	1104.22	530.00	574.22	248.83
J-3	0.00	1284.41	1025.00	259.41	112.41
J-30	0.00	1104.22	530.00	574.22	248.83
J-31	0.00	1104.22	565.00	539.22	233.66
J-32	0.00	1104.22	900.00	204.22	88.49
J-33	0.00	1104.22	860.00	244.22	105.83
J-34	0.00	1257.63			
J-35	0.00	1104.22	1000.00	104.22	45.16
J-36	198.00 (1.32)	1143.96	1009.00	134.96	58.48
J-37	274.56 (1.32)	1104.21	998.50	105.71	45.81
J-38	432.96 (1.32)	1202.87			
J-39	0.00	1255.81	1070.00	185.81	80.52
J-4	0.00	1290.76	1010.00	280.76	121.66
J-40	0.00	1246.09	1040.00	206.09	89.30
J-41	0.00	1226.73	1070.00	156.73	67.92
J-42	0.00	1207.88	1130.00	77.88	33.75
J-43	0.00	1213.02	1130.00	83.02	35.97
J-5	0.00	1298.20	1040.00	258.20	111.89
J-6	0.00	1301.32	1050.00	251.32	108.90
J-7	0.00	1307.29	1000.00	307.29	133.16
J-8	0.00	1309.91	1021.00	288.91	125.20
J-9	0.00	1318.83	1040.00	278.83	120.83
PERSIMMON	----	1202.88	1115.00	87.88	38.08
I-Pump-1	0.00	1103.62			
O-Pump-2	0.00	1321.40	995.00	326.40	141.44
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.01			
I-Pump-2	0.00	1091.91	995.00	96.91	41.99
O-Pump-3	0.00	1104.22	540.00	564.22	244.49

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	248.83	I-Pump-3	4.33
J-30	248.83	J-1	32.77
O-Pump-3	244.49	J-42	33.75

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.40	P-1	0.38
P-27	3.40	P-43	0.44
P-23	2.35	P-41	0.85

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.70	P-1	0.03
P-26	5.70	P-43	0.06
P-23	2.88	P-41	0.19

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.70	P-1	0.03
P-26	5.70	P-43	0.06
P-23	2.88	P-41	0.19

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	807.77	
COUNTY HOUS	198.00	
PERSIMMON	-100.25	
R-2	0.00	

NET SYSTEM INFLOW = 1005.77
 NET SYSTEM OUTFLOW = -100.25
 NET SYSTEM DEMAND = 905.52

TANK STATUS REPORT (time = 12.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-807.77	1104.22	19.22	354086.	56.5	DRAINING	16.59
COUNTY HOUS (1)	-198.00	1144.01	26.01	382005.	83.9	DRAINING	25.20
PERSIMMON (1)	100.25	1202.88	12.88	139938.	49.5	FILLING	13.43

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 13.000

CHANGES FOR NEXT SIMULATION (time = 13.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 13.000

TIME FROM INITIATION OF EPS = 13.0000 HOURS (1300 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	529.59	0.00	0.00	0.38	0.03	0.03
P-10	J-9	J-8	529.59	8.80	0.00	2.16	1.90	1.90
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	529.59	2.15	0.00	2.16	1.90	1.90
P-22	J-19	J-20	529.59	1.46	0.00	2.16	1.90	1.90
P-23	J-20	J-21	366.12	11.52	0.00	2.34	2.84	2.84
P-24	J-22	J-19	529.59	2.40	0.00	2.16	1.90	1.90
P-25	J-20	J-28	163.47	10.33	0.00	1.85	2.59	2.59
P-26	J-42	J-24	529.59	4.73	0.00	3.38	5.63	5.63
P-27	J-24	J-23	529.59	0.20	0.00	3.38	5.63	5.63
P-28	J-25	J-42	163.47	21.53	0.00	1.85	2.59	2.59
P-29	J-26	J-25	163.47	18.96	0.00	1.85	2.59	2.59
P-3	J-2	I-Pump-2	529.59	11.56	0.00	2.16	1.90	1.90
P-30	J-27	J-26	163.47	8.95	0.00	1.85	2.59	2.59
P-31	J-28	J-27	163.47	9.79	0.00	1.85	2.59	2.59
P-32	J-21	J-34	366.12	8.91	0.00	2.34	2.84	2.84
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	529.59	2.54	0.00	2.16	1.90	1.90
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	529.59	0.59	0.00	0.85	0.19	0.19
P-42	COUNTY HOU	J-36	190.50	0.04	0.00	1.22	0.85	0.85
P-43	CLOYD WILL	J-37	264.16	0.00	0.00	0.42	0.05	0.05
P-44	J-23	PERSIMMON	529.59	0.01	0.00	2.16	1.90	1.90
P-45	J-34	J-39	366.12	1.80	0.00	2.34	2.84	2.84
P-46	J-39	J-40	366.12	9.60	0.00	2.34	2.84	2.84
P-47	J-40	J-41	366.12	19.12	0.00	2.34	2.84	2.84
P-48	J-41	J-43	366.12	13.54	0.00	2.34	2.84	2.84
P-49	J-43	J-42	366.12	5.07	0.00	2.34	2.84	2.84
P-5	J-4	J-3	529.59	6.28	0.00	2.16	1.90	1.90
P-50	PERSIMMON	J-38	416.56	0.01	0.00	1.70	1.22	1.22
P-6	J-5	J-4	529.59	7.34	0.00	2.16	1.90	1.90
P-7	J-6	J-5	529.59	3.07	0.00	2.16	1.90	1.90
P-8	J-7	J-6	529.59	5.90	0.00	2.16	1.90	1.90
P-9	J-8	J-7	529.59	2.59	0.00	2.16	1.90	1.90

P U M P / L O S S E L E M E N T R E S U L T S

NPSH NAME	FLOWRATE	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
		HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES

Avail. (gpm) (ft) (ft) (ft) (%) (Hp) (\$) (\$)
 (ft)

 Device "Pump-1" is closed
 Pump-2 529.59 94.44 325.47 231.0 75.00 31. 1.5 12.3 ** **
 127.6
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1101.59	998.50	103.09	44.67
COUNTY HOU		----	1143.20	1009.00	134.20	58.15
J-1		0.00	1101.00	1028.00	73.00	31.63
J-10		0.00	1143.20	1020.00	123.20	53.39
J-11		0.00	1143.20	960.00	183.20	79.39
J-12		0.00	1143.20	785.00	358.20	155.22
J-13		0.00	1101.00	950.00	151.00	65.43
J-14		0.00	1101.00	780.00	321.00	139.10
J-15		0.00	1101.00	780.00	321.00	139.10
J-16		0.00	1101.00	915.00	186.00	80.60
J-17		0.00	1101.00	850.00	251.00	108.77
J-18		0.00	1101.00	990.00	111.00	48.10
J-19		0.00	1279.39	1030.00	249.39	108.07
J-2		0.00	1101.00	1000.00	101.00	43.77
J-20		0.00	1277.93	1050.00	227.93	98.77
J-21		0.00	1266.41	1050.00	216.41	93.78
J-22		0.00	1281.79	1005.00	276.79	119.94
J-23		0.00	1203.44	1090.00	113.44	49.16
J-24		0.00	1203.64	1090.00	113.64	49.24
J-25		0.00	1229.90	1060.00	169.90	73.62
J-26		0.00	1248.86	1020.00	228.86	99.17
J-27		0.00	1257.82	1070.00	187.82	81.39
J-28		0.00	1267.60	1050.00	217.60	94.29
J-29		0.00	1101.59	530.00	571.59	247.69
J-3		0.00	1283.94	1025.00	258.94	112.21
J-30		0.00	1101.59	530.00	571.59	247.69
J-31		0.00	1101.59	565.00	536.59	232.52
J-32		0.00	1101.59	900.00	201.59	87.35
J-33		0.00	1101.59	860.00	241.59	104.69
J-34		0.00	1257.50			
J-35		0.00	1101.59	1000.00	101.59	44.02
J-36		190.50 (1.27)	1143.16	1009.00	134.16	58.13
J-37		264.16 (1.27)	1101.58	998.50	103.08	44.67
J-38		416.56 (1.27)	1203.42			
J-39		0.00	1255.70	1070.00	185.70	80.47
J-4		0.00	1290.22	1010.00	280.22	121.43
J-40		0.00	1246.10	1040.00	206.10	89.31
J-41		0.00	1226.98	1070.00	156.98	68.03
J-42		0.00	1208.37	1130.00	78.37	33.96
J-43		0.00	1213.44	1130.00	83.44	36.16
J-5		0.00	1297.56	1040.00	257.56	111.61
J-6		0.00	1300.63	1050.00	250.63	108.61
J-7		0.00	1306.54	1000.00	306.54	132.83
J-8		0.00	1309.12	1021.00	288.12	124.85
J-9		0.00	1317.93	1040.00	277.93	120.43
PERSIMMON		----	1203.43	1115.00	88.43	38.32
I-Pump-1		0.00	1101.00			
O-Pump-2		0.00	1320.47	995.00	325.47	141.04

I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1143.20			
I-Pump-2	0.00	1089.44	995.00	94.44	40.92
O-Pump-3	0.00	1101.59	540.00	561.59	243.35

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	247.69	I-Pump-3	4.33
J-30	247.69	J-1	31.63
O-Pump-3	243.35	J-42	33.96

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.38	P-1	0.38
P-27	3.38	P-43	0.42
P-23	2.34	P-41	0.85

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-26	5.63	P-1	0.03
P-27	5.63	P-43	0.05
P-32	2.84	P-41	0.19

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-26	5.63	P-1	0.03
P-27	5.63	P-43	0.05
P-32	2.84	P-41	0.19

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	793.75	
COUNTY HOUS	190.50	
PERSIMMON	-113.03	
R-2	0.00	

NET SYSTEM INFLOW = 984.25

NET SYSTEM OUTFLOW = -113.03
NET SYSTEM DEMAND = 871.22

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-3	OPENED	J-35	1101.59	1116.00
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Time: 13.000

TIME FROM INITIATION OF EPS = 13.0000 HOURS (1300 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 6 TRIALS: ACCURACY = 0.00003

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD	WILL J-35	-1594.04	0.01	0.00	1.13	0.21	0.21
P-10	J-9	J-8	529.60	8.80	0.00	2.16	1.90	1.90
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	529.60	2.15	0.00	2.16	1.90	1.90
P-22	J-19	J-20	529.60	1.46	0.00	2.16	1.90	1.90
P-23	J-20	J-21	366.13	11.52	0.00	2.34	2.84	2.84
P-24	J-22	J-19	529.60	2.40	0.00	2.16	1.90	1.90
P-25	J-20	J-28	163.48	10.33	0.00	1.85	2.59	2.59
P-26	J-42	J-24	529.60	4.73	0.00	3.38	5.63	5.63
P-27	J-24	J-23	529.60	0.20	0.00	3.38	5.63	5.63
P-28	J-25	J-42	163.48	21.53	0.00	1.85	2.59	2.59
P-29	J-26	J-25	163.48	18.96	0.00	1.85	2.59	2.59
P-3	J-2	I-Pump-2	529.60	11.56	0.00	2.16	1.90	1.90
P-30	J-27	J-26	163.48	8.95	0.00	1.85	2.59	2.59
P-31	J-28	J-27	163.48	9.79	0.00	1.85	2.59	2.59
P-32	J-21	J-34	366.13	8.91	0.00	2.34	2.84	2.84
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2123.64	0.14	0.00	1.51	0.35	0.35
P-35	I-Pump-3	R-2	-2123.64	0.02	0.00	1.51	0.35	0.35
P-36	J-30	J-29	2123.64	4.32	0.00	3.39	2.52	2.52
P-37	J-29	J-31	2123.64	15.38	0.00	3.39	2.52	2.52
P-38	J-31	J-33	2123.64	11.69	0.00	3.39	2.52	2.52
P-39	J-33	J-32	2123.64	2.44	0.00	3.39	2.52	2.52
P-4	O-Pump-2	J-9	529.60	2.54	0.00	2.16	1.90	1.90
P-40	J-32	J-35	2123.64	20.57	0.00	3.39	2.52	2.52
P-41	J-35	J-2	529.60	0.59	0.00	0.85	0.19	0.19

P-42	COUNTY HOU	J-36	190.50	0.04	0.00	1.22	0.85	0.85
P-43	CLOYD WILL	J-37	264.16	0.00	0.00	0.42	0.05	0.05
P-44	J-23	PERSIMMON	529.60	0.01	0.00	2.16	1.90	1.90
P-45	J-34	J-39	366.13	1.80	0.00	2.34	2.84	2.84
P-46	J-39	J-40	366.13	9.60	0.00	2.34	2.84	2.84
P-47	J-40	J-41	366.13	19.12	0.00	2.34	2.84	2.84
P-48	J-41	J-43	366.13	13.54	0.00	2.34	2.84	2.84
P-49	J-43	J-42	366.13	5.07	0.00	2.34	2.84	2.84
P-5	J-4	J-3	529.60	6.28	0.00	2.16	1.90	1.90
P-50	PERSIMMON	J-38	416.56	0.01	0.00	1.70	1.22	1.22
P-6	J-5	J-4	529.60	7.35	0.00	2.16	1.90	1.90
P-7	J-6	J-5	529.60	3.07	0.00	2.16	1.90	1.90
P-8	J-7	J-6	529.60	5.90	0.00	2.16	1.90	1.90
P-9	J-8	J-7	529.60	2.59	0.00	2.16	1.90	1.90

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
(ft)		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed

127.6	Pump-2	529.60	94.45	325.47	231.0	75.00	31.	1.5	13.8	**	**
43	Pump-3	2123.64	9.98	616.14	606.2	75.00	325.	16.1	32.3	**	**

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1101.59	998.50	103.09	44.67
COUNTY HOU		----	1143.20	1009.00	134.20	58.15
J-1		0.00	1101.01	1028.00	73.01	31.64
J-10		0.00	1143.20	1020.00	123.20	53.39
J-11		0.00	1143.20	960.00	183.20	79.39
J-12		0.00	1143.20	785.00	358.20	155.22
J-13		0.00	1101.01	950.00	151.01	65.44
J-14		0.00	1101.01	780.00	321.01	139.10
J-15		0.00	1101.01	780.00	321.01	139.10
J-16		0.00	1101.01	915.00	186.01	80.60
J-17		0.00	1101.01	850.00	251.01	108.77
J-18		0.00	1101.01	990.00	111.01	48.10
J-19		0.00	1279.39	1030.00	249.39	108.07
J-2		0.00	1101.01	1000.00	101.01	43.77
J-20		0.00	1277.93	1050.00	227.93	98.77
J-21		0.00	1266.41	1050.00	216.41	93.78
J-22		0.00	1281.79	1005.00	276.79	119.94
J-23		0.00	1203.44	1090.00	113.44	49.16
J-24		0.00	1203.64	1090.00	113.64	49.24
J-25		0.00	1229.90	1060.00	169.90	73.63
J-26		0.00	1248.86	1020.00	228.86	99.17
J-27		0.00	1257.82	1070.00	187.82	81.39
J-28		0.00	1267.61	1050.00	217.61	94.30

J-29	0.00	1151.68	530.00	621.68	269.39
J-3	0.00	1283.94	1025.00	258.94	112.21
J-30	0.00	1156.00	530.00	626.00	271.27
J-31	0.00	1136.30	565.00	571.30	247.56
J-32	0.00	1122.17	900.00	222.17	96.27
J-33	0.00	1124.61	860.00	264.61	114.66
J-34	0.00	1257.50			
J-35	0.00	1101.60	1000.00	101.60	44.03
J-36	190.50 (1.27)	1143.16	1009.00	134.16	58.13
J-37	264.16 (1.27)	1101.58	998.50	103.08	44.67
J-38	416.56 (1.27)	1203.42			
J-39	0.00	1255.70	1070.00	185.70	80.47
J-4	0.00	1290.22	1010.00	280.22	121.43
J-40	0.00	1246.10	1040.00	206.10	89.31
J-41	0.00	1226.98	1070.00	156.98	68.03
J-42	0.00	1208.37	1130.00	78.37	33.96
J-43	0.00	1213.44	1130.00	83.44	36.16
J-5	0.00	1297.56	1040.00	257.56	111.61
J-6	0.00	1300.64	1050.00	250.64	108.61
J-7	0.00	1306.54	1000.00	306.54	132.83
J-8	0.00	1309.13	1021.00	288.13	124.86
J-9	0.00	1317.93	1040.00	277.93	120.44
PERSIMMON	----	1203.43	1115.00	88.43	38.32
I-Pump-1	0.00	1101.01			
O-Pump-2	0.00	1320.47	995.00	325.47	141.04
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1143.20			
I-Pump-2	0.00	1089.45	995.00	94.45	40.93
O-Pump-3	0.00	1156.14	540.00	616.14	266.99

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	271.27	I-Pump-3	4.33
J-29	269.39	J-1	31.64
O-Pump-3	266.99	J-42	33.96

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-36	3.39	P-43	0.42
P-37	3.39	P-41	0.85
P-38	3.39	P-1	1.13

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.63	P-43	0.05
P-26	5.63	P-41	0.19
P-48	2.84	P-1	0.21

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.63	P-43	0.05
P-26	5.63	P-41	0.19
P-48	2.84	P-1	0.21

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1329.88	
COUNTY HOUS	190.50	
PERSIMMON	-113.04	
R-2	2123.64	

NET SYSTEM INFLOW = 2314.14
 NET SYSTEM OUTFLOW = -1442.92
 NET SYSTEM DEMAND = 871.22

T A N K S T A T U S R E P O R T (time = 13.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1329.88	1101.59	16.59	305620.	48.8	FILLING	20.92
COUNTY HOUS (1)	-190.50	1143.20	25.20	370125.	81.3	DRAINING	24.42
PERSIMMON (1)	113.04	1203.43	13.43	145953.	51.7	FILLING	14.06

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 14.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 14.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 14.000

TIME FROM INITIATION OF EPS = 14.0000 HOURS (1400 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

(ft)	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed										
131.	Pump-2	533.82	98.60	327.83	229.2	75.00	31.	1.5	15.3	** **
43.1	Pump-3	2110.41	9.98	619.84	609.9	75.00	325.	16.2	48.4	** **

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.92	998.50	107.42	46.55
COUNTY HOU		----	1142.42	1009.00	133.42	57.82
J-1		0.00	1105.33	1028.00	77.33	33.51
J-10		0.00	1142.42	1020.00	122.42	53.05
J-11		0.00	1142.42	960.00	182.42	79.05
J-12		0.00	1142.42	785.00	357.42	154.88
J-13		0.00	1105.33	950.00	155.33	67.31
J-14		0.00	1105.33	780.00	325.33	140.98
J-15		0.00	1105.33	780.00	325.33	140.98
J-16		0.00	1105.33	915.00	190.33	82.48
J-17		0.00	1105.33	850.00	255.33	110.64
J-18		0.00	1105.33	990.00	115.33	49.98
J-19		0.00	1281.14	1030.00	251.14	108.83
J-2		0.00	1105.33	1000.00	105.33	45.64
J-20		0.00	1279.66	1050.00	229.66	99.52
J-21		0.00	1267.97	1050.00	217.97	94.45
J-22		0.00	1283.58	1005.00	278.58	120.72
J-23		0.00	1204.07	1090.00	114.07	49.43
J-24		0.00	1204.27	1090.00	114.27	49.52
J-25		0.00	1230.92	1060.00	170.92	74.07
J-26		0.00	1250.16	1020.00	230.16	99.74
J-27		0.00	1259.25	1070.00	189.25	82.01
J-28		0.00	1269.18	1050.00	219.18	94.98
J-29		0.00	1155.43	530.00	625.43	271.02
J-3		0.00	1285.76	1025.00	260.76	113.00
J-30		0.00	1159.71	530.00	629.71	272.87
J-31		0.00	1140.23	565.00	575.23	249.27
J-32		0.00	1126.26	900.00	226.26	98.05
J-33		0.00	1128.68	860.00	268.68	116.43
J-34		0.00	1258.92			
J-35		0.00	1105.93	1000.00	105.93	45.90
J-36		187.50 (1.25)	1142.38	1009.00	133.38	57.80
J-37		260.00 (1.25)	1105.91	998.50	107.41	46.55
J-38		410.00 (1.25)	1204.05			
J-39		0.00	1257.10	1070.00	187.10	81.07
J-4		0.00	1292.13	1010.00	282.13	122.26
J-40		0.00	1247.36	1040.00	207.36	89.85
J-41		0.00	1227.96	1070.00	157.96	68.45
J-42		0.00	1209.07	1130.00	79.07	34.26
J-43		0.00	1214.22	1130.00	84.22	36.49
J-5		0.00	1299.58	1040.00	259.58	112.49
J-6		0.00	1302.70	1050.00	252.70	109.50
J-7		0.00	1308.69	1000.00	308.69	133.77
J-8		0.00	1311.32	1021.00	290.32	125.80
J-9		0.00	1320.25	1040.00	280.25	121.44
PERSIMMON		----	1204.06	1115.00	89.06	38.59
I-Pump-1		0.00	1105.33			
O-Pump-2		0.00	1322.83	995.00	327.83	142.06

I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1142.42			
I-Pump-2	0.00	1093.60	995.00	98.60	42.73
O-Pump-3	0.00	1159.84	540.00	619.84	268.60

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	272.87	I-Pump-3	4.33
J-29	271.02	J-1	33.51
O-Pump-3	268.60	J-42	34.26

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.41	P-43	0.41
P-27	3.41	P-41	0.85
P-36	3.37	P-1	1.12

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.71	P-43	0.05
P-26	5.71	P-41	0.20
P-48	2.88	P-1	0.20

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.71	P-43	0.05
P-26	5.71	P-41	0.20
P-48	2.88	P-1	0.20

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1316.59	
COUNTY HOUS	187.50	
PERSIMMON	-123.82	
R-2	2110.41	

NET SYSTEM INFLOW = 2297.91

NET SYSTEM OUTFLOW = -1440.41
NET SYSTEM DEMAND = 857.50

TANK STATUS REPORT (time = 14.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1316.59	1105.92	20.92	385413.	61.5	FILLING	25.20
COUNTY HOUS (1)	-187.50	1142.42	24.42	358695.	78.8	DRAINING	23.65
PERSIMMON (1)	123.82	1204.06	14.06	152736.	54.1	FILLING	14.74

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 15.000

TIME FROM INITIATION OF EPS = 15.0000 HOURS (1500 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1559.27	0.01	0.00	1.11	0.20	0.20
P-10	J-9	J-8	537.87	9.06	0.00	2.20	1.95	1.95
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	537.87	2.21	0.00	2.20	1.95	1.95
P-22	J-19	J-20	537.87	1.51	0.00	2.20	1.95	1.95
P-23	J-20	J-21	371.84	11.86	0.00	2.37	2.92	2.92
P-24	J-22	J-19	537.87	2.47	0.00	2.20	1.95	1.95
P-25	J-20	J-28	166.03	10.63	0.00	1.88	2.67	2.67
P-26	J-42	J-24	537.87	4.87	0.00	3.43	5.79	5.79
P-27	J-24	J-23	537.87	0.20	0.00	3.43	5.79	5.79
P-28	J-25	J-42	166.03	22.16	0.00	1.88	2.67	2.67
P-29	J-26	J-25	166.03	19.51	0.00	1.88	2.67	2.67
P-3	J-2	I-Pump-2	537.87	11.90	0.00	2.20	1.95	1.95
P-30	J-27	J-26	166.03	9.21	0.00	1.88	2.67	2.67
P-31	J-28	J-27	166.03	10.07	0.00	1.88	2.67	2.67
P-32	J-21	J-34	371.84	9.17	0.00	2.37	2.92	2.92
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2097.13	0.13	0.00	1.49	0.34	0.34
P-35	I-Pump-3	R-2	-2097.13	0.02	0.00	1.49	0.34	0.34
P-36	J-30	J-29	2097.13	4.22	0.00	3.35	2.46	2.46
P-37	J-29	J-31	2097.13	15.03	0.00	3.35	2.46	2.46
P-38	J-31	J-33	2097.13	11.42	0.00	3.35	2.46	2.46

P-39	J-33	J-32	2097.13	2.39	0.00	3.35	2.46	2.46
P-4	O-Pump-2	J-9	537.87	2.61	0.00	2.20	1.95	1.95
P-40	J-32	J-35	2097.13	20.10	0.00	3.35	2.46	2.46
P-41	J-35	J-2	537.87	0.61	0.00	0.86	0.20	0.20
P-42	COUNTY HOU	J-36	187.50	0.04	0.00	1.20	0.82	0.82
P-43	CLOYD WILL	J-37	260.00	0.00	0.00	0.41	0.05	0.05
P-44	J-23	PERSIMMON	537.87	0.01	0.00	2.20	1.95	1.95
P-45	J-34	J-39	371.84	1.85	0.00	2.37	2.92	2.92
P-46	J-39	J-40	371.84	9.88	0.00	2.37	2.92	2.92
P-47	J-40	J-41	371.84	19.67	0.00	2.37	2.92	2.92
P-48	J-41	J-43	371.84	13.93	0.00	2.37	2.92	2.92
P-49	J-43	J-42	371.84	5.22	0.00	2.37	2.92	2.92
P-5	J-4	J-3	537.87	6.46	0.00	2.20	1.95	1.95
P-50	PERSIMMON	J-38	410.00	0.01	0.00	1.67	1.18	1.18
P-6	J-5	J-4	537.87	7.56	0.00	2.20	1.95	1.95
P-7	J-6	J-5	537.87	3.16	0.00	2.20	1.95	1.95
P-8	J-7	J-6	537.87	6.07	0.00	2.20	1.95	1.95
P-9	J-8	J-7	537.87	2.66	0.00	2.20	1.95	1.95

P U M P / L O S S E L E M E N T R E S U L T S

NPSH Avail. (ft)	NAME	FLOWRATE (gpm)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)	TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES
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Force "Pump-1" is closed

135.8	Pump-2	537.87	102.71	330.18	227.5	75.00	31.	1.5	16.9	**	**
43.1	Pump-3	2097.13	9.98	623.50	613.5	75.00	325.	16.2	64.6	**	**

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1110.20	998.50	111.70	48.41
COUNTY HOU		----	1141.65	1009.00	132.65	57.48
J-1		0.00	1109.61	1028.00	81.61	35.36
J-10		0.00	1141.65	1020.00	121.65	52.72
J-11		0.00	1141.65	960.00	181.65	78.72
J-12		0.00	1141.65	785.00	356.65	154.55
J-13		0.00	1109.61	950.00	159.61	69.16
J-14		0.00	1109.61	780.00	329.61	142.83
J-15		0.00	1109.61	780.00	329.61	142.83
J-16		0.00	1109.61	915.00	194.61	84.33
J-17		0.00	1109.61	850.00	259.61	112.50
J-18		0.00	1109.61	990.00	119.61	51.83
J-19		0.00	1282.91	1030.00	252.91	109.60
J-2		0.00	1109.61	1000.00	109.61	47.50
J-20		0.00	1281.41	1050.00	231.41	100.28
J-21		0.00	1269.55	1050.00	219.55	95.14
J-22		0.00	1285.38	1005.00	280.38	121.50
J-23		0.00	1204.75	1090.00	114.75	49.73
J-24		0.00	1204.95	1090.00	114.95	49.81

J-25	0.00	1231.98	1060.00	171.98	74.53
J-26	0.00	1251.49	1020.00	231.49	100.31
J-27	0.00	1260.71	1070.00	190.71	82.64
J-28	0.00	1270.78	1050.00	220.78	95.67
J-29	0.00	1159.14	530.00	629.14	272.63
J-3	0.00	1287.59	1025.00	262.59	113.79
J-30	0.00	1163.37	530.00	633.37	274.46
J-31	0.00	1144.12	565.00	579.12	250.95
J-32	0.00	1130.31	900.00	230.31	99.80
J-33	0.00	1132.70	860.00	272.70	118.17
J-34	0.00	1260.38			
J-35	0.00	1110.21	1000.00	110.21	47.76
J-36	187.50 (1.25)	1141.61	1009.00	132.61	57.47
J-37	260.00 (1.25)	1110.20	998.50	111.70	48.40
J-38	410.00 (1.25)	1204.73			
J-39	0.00	1258.53	1070.00	188.53	81.69
J-4	0.00	1294.05	1010.00	284.05	123.09
J-40	0.00	1248.65	1040.00	208.65	90.41
J-41	0.00	1228.98	1070.00	158.98	68.89
J-42	0.00	1209.82	1130.00	79.82	34.59
J-43	0.00	1215.04	1130.00	85.04	36.85
J-5	0.00	1301.61	1040.00	261.61	113.36
J-6	0.00	1304.77	1050.00	254.77	110.40
J-7	0.00	1310.85	1000.00	310.85	134.70
J-8	0.00	1313.51	1021.00	292.51	126.75
J-9	0.00	1322.57	1040.00	282.57	122.45
PERSIMMON	----	1204.74	1115.00	89.74	38.89
I-Pump-1	0.00	1109.61			
O-Pump-2	0.00	1325.18	995.00	330.18	143.08
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1141.65			
I-Pump-2	0.00	1097.71	995.00	102.71	44.51
O-Pump-3	0.00	1163.50	540.00	623.50	270.18

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	274.46	I-Pump-3	4.33
J-29	272.63	J-42	34.59
O-Pump-3	270.18	J-1	35.36

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.43	P-43	0.41
P-27	3.43	P-41	0.86
P-36	3.35	P-1	1.11

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.79	P-43	0.05

P-26	5.79	P-1	0.20
P-32	2.92	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.79	P-43	0.05
P-26	5.79	P-1	0.20
P-32	2.92	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1299.27	
COUNTY HOUS	187.50	
PERSIMMON	-127.87	
R-2	2097.13	

NET SYSTEM INFLOW = 2284.63
 NET SYSTEM OUTFLOW = -1427.13
 NET SYSTEM DEMAND = 857.50

TANK STATUS REPORT (time = 15.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1299.27	1110.20	25.20	464408.	74.1	FILLING	29.44
COUNTY HOUS (1)	-187.50	1141.65	23.65	347445.	76.3	DRAINING	22.89
PERSIMMON (1)	127.87	1204.74	14.74	160165.	56.7	FILLING	15.45

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 16.000

CHANGES FOR NEXT SIMULATION (time = 16.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time 16.000

TIME FROM INITIATION OF EPS = 16.0000 HOURS (1600 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	-1542.08	0.01	0.00	1.09	0.19	0.19
P-10		J-9 J-8	541.78	9.18	0.00	2.21	1.98	1.98
P-11		J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12		J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13		J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14		J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15		J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16		J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17		J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18		J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19		J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2		J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20		J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21		J-3 J-22	541.78	2.24	0.00	2.21	1.98	1.98
P-22		J-19 J-20	541.78	1.53	0.00	2.21	1.98	1.98
P-23		J-20 J-21	374.55	12.02	0.00	2.39	2.96	2.96
P-24		J-22 J-19	541.78	2.50	0.00	2.21	1.98	1.98
P-25		J-20 J-28	167.24	10.77	0.00	1.90	2.70	2.70
P-26		J-42 J-24	541.78	4.93	0.00	3.46	5.87	5.87
P-27		J-24 J-23	541.78	0.21	0.00	3.46	5.87	5.87
P-28		J-25 J-42	167.24	22.46	0.00	1.90	2.70	2.70
P-29		J-26 J-25	167.24	19.77	0.00	1.90	2.70	2.70
P-3		J-2 I-Pump-2	541.78	12.06	0.00	2.21	1.98	1.98
P-30		J-27 J-26	167.24	9.34	0.00	1.90	2.70	2.70
P-31		J-28 J-27	167.24	10.21	0.00	1.90	2.70	2.70
P-32		J-21 J-34	374.55	9.30	0.00	2.39	2.96	2.96
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2083.86	0.13	0.00	1.48	0.34	0.34
P-35	I-Pump-3	R-2	-2083.86	0.02	0.00	1.48	0.34	0.34
P-36		J-30 J-29	2083.86	4.18	0.00	3.32	2.43	2.43
P-37		J-29 J-31	2083.86	14.85	0.00	3.32	2.43	2.43
P-38		J-31 J-33	2083.86	11.29	0.00	3.32	2.43	2.43
P-39		J-33 J-32	2083.86	2.36	0.00	3.32	2.43	2.43
P-4	O-Pump-2	J-9	541.78	2.65	0.00	2.21	1.98	1.98
P-40		J-32 J-35	2083.86	19.86	0.00	3.32	2.43	2.43
P-41		J-35 J-2	541.78	0.61	0.00	0.86	0.20	0.20
P-42	COUNTY HOU	J-36	192.00	0.04	0.00	1.23	0.86	0.86
P-43	CLOYD WILL	J-37	266.24	0.00	0.00	0.42	0.05	0.05
P-44		J-23 PERSIMMON	541.78	0.01	0.00	2.21	1.98	1.98
P-45		J-34 J-39	374.55	1.88	0.00	2.39	2.96	2.96
P-46		J-39 J-40	374.55	10.01	0.00	2.39	2.96	2.96
P-47		J-40 J-41	374.55	19.94	0.00	2.39	2.96	2.96
P-48		J-41 J-43	374.55	14.12	0.00	2.39	2.96	2.96
P-49		J-43 J-42	374.55	5.29	0.00	2.39	2.96	2.96
P-5		J-4 J-3	541.78	6.55	0.00	2.21	1.98	1.98
P-50	PERSIMMON	J-38	419.84	0.01	0.00	1.71	1.24	1.24
P-6		J-5 J-4	541.78	7.66	0.00	2.21	1.98	1.98
P-7		J-6 J-5	541.78	3.21	0.00	2.21	1.98	1.98
P-8		J-7 J-6	541.78	6.16	0.00	2.21	1.98	1.98
P-9		J-8 J-7	541.78	2.70	0.00	2.21	1.98	1.98

PUMP/LOSS ELEMENT RESULTS

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed

139.9	Pump-2	541.78	106.77	332.52	225.7	75.00	31.	1.5	18.4	**	**
43.1	Pump-3	2083.86	9.98	627.11	617.1	75.00	325.	16.2	80.8	**	**

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1114.44	998.50	115.94	50.24
COUNTY HOU		----	1140.89	1009.00	131.89	57.15
J-1		0.00	1113.83	1028.00	85.83	37.19
J-10		0.00	1140.89	1020.00	120.89	52.38
J-11		0.00	1140.89	960.00	180.89	78.38
J-12		0.00	1140.89	785.00	355.89	154.22
J-13		0.00	1113.83	950.00	163.83	70.99
J-14		0.00	1113.83	780.00	333.83	144.66
J-15		0.00	1113.83	780.00	333.83	144.66
J-16		0.00	1113.83	915.00	198.83	86.16
J-17		0.00	1113.83	850.00	263.83	114.33
J-18		0.00	1113.83	990.00	123.83	53.66
J-19		0.00	1284.68	1030.00	254.68	110.36
J-2		0.00	1113.83	1000.00	113.83	49.33
J-20		0.00	1283.15	1050.00	233.15	101.03
J-21		0.00	1271.13	1050.00	221.13	95.82
J-22		0.00	1287.18	1005.00	282.18	122.28
J-23		0.00	1205.46	1090.00	115.46	50.03
J-24		0.00	1205.66	1090.00	115.66	50.12
J-25		0.00	1233.06	1060.00	173.06	74.99
J-26		0.00	1252.83	1020.00	232.83	100.89
J-27		0.00	1262.17	1070.00	192.17	83.27
J-28		0.00	1272.38	1050.00	222.38	96.36
J-29		0.00	1162.80	530.00	632.80	274.21
J-3		0.00	1289.42	1025.00	264.42	114.58
J-30		0.00	1166.98	530.00	636.98	276.02
J-31		0.00	1147.95	565.00	582.95	252.61
J-32		0.00	1134.31	900.00	234.31	101.53
J-33		0.00	1136.67	860.00	276.67	119.89
J-34		0.00	1261.84			
J-35		0.00	1114.44	1000.00	114.44	49.59
J-36		192.00 (1.28)	1140.84	1009.00	131.84	57.13
J-37		266.24 (1.28)	1114.43	998.50	115.93	50.24
J-38		419.84 (1.28)	1205.44			
J-39		0.00	1259.96	1070.00	189.96	82.32
J-4		0.00	1295.97	1010.00	285.97	123.92
J-40		0.00	1249.95	1040.00	209.95	90.98
J-41		0.00	1230.01	1070.00	160.01	69.34
J-42		0.00	1210.60	1130.00	80.60	34.93
J-43		0.00	1215.89	1130.00	85.89	37.22
J-5		0.00	1303.63	1040.00	263.63	114.24
J-6		0.00	1306.83	1050.00	256.83	111.29
J-7		0.00	1312.99	1000.00	312.99	135.63
J-8		0.00	1315.69	1021.00	294.69	127.70

J-9	0.00	1324.87	1040.00	284.87	123.44
PERSIMMON	----	1205.45	1115.00	90.45	39.19
I-Pump-1	0.00	1113.83			
O-Pump-2	0.00	1327.52	995.00	332.52	144.09
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
Pump-1	0.00	1140.89			
Pump-2	0.00	1101.77	995.00	106.77	46.27
O-Pump-3	0.00	1167.11	540.00	627.11	271.75

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	276.02	I-Pump-3	4.33
J-29	274.21	J-42	34.93
O-Pump-3	271.75	J-1	37.19

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.46	P-43	0.42
P-27	3.46	P-41	0.86
P-36	3.32	P-1	1.09

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.87	P-43	0.05
P-26	5.87	P-1	0.19
P-48	2.96	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.87	P-43	0.05
P-26	5.87	P-1	0.19
P-48	2.96	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1275.84	
COUNTY HOUS	192.00	

PERSIMMON -121.94
R-2 2083.86

NET SYSTEM INFLOW = 2275.86
NET SYSTEM OUTFLOW = -1397.78
NET SYSTEM DEMAND = 878.08

TANK STATUS REPORT (time = 16.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1275.84	1114.44	29.44	542364.	86.6	FILLING	33.59
COUNTY HOUS (1)	-192.00	1140.89	22.89	336195.	73.8	DRAINING	22.10
PERSIMMON (1)	121.94	1205.45	15.45	167836.	59.4	FILLING	16.12

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 17.000

CHANGES FOR NEXT SIMULATION (time = 17.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 17.000

TIME FROM INITIATION OF EPS = 17.0000 HOURS (1700 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1525.06	0.01	0.00	1.08	0.19	0.19
P-10	J-9	J-8	545.61	9.30	0.00	2.23	2.01	2.01
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	545.61	2.27	0.00	2.23	2.01	2.01
P-22	J-19	J-20	545.61	1.55	0.00	2.23	2.01	2.01

P-23	J-20	J-21	377.19	12.17	0.00	2.41	3.00	3.00
P-24	J-22	J-19	545.61	2.53	0.00	2.23	2.01	2.01
P-25	J-20	J-28	168.42	10.91	0.00	1.91	2.74	2.74
P-26	J-42	J-24	545.61	5.00	0.00	3.48	5.95	5.95
P-27	J-24	J-23	545.61	0.21	0.00	3.48	5.95	5.95
P-28	J-25	J-42	168.42	22.76	0.00	1.91	2.74	2.74
P-29	J-26	J-25	168.42	20.03	0.00	1.91	2.74	2.74
P-3	J-2	I-Pump-2	545.61	12.22	0.00	2.23	2.01	2.01
P-30	J-27	J-26	168.42	9.46	0.00	1.91	2.74	2.74
P-31	J-28	J-27	168.42	10.34	0.00	1.91	2.74	2.74
P-32	J-21	J-34	377.19	9.42	0.00	2.41	3.00	3.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2070.66	0.13	0.00	1.47	0.33	0.33
P-35	I-Pump-3	R-2	-2070.66	0.02	0.00	1.47	0.33	0.33
P-36	J-30	J-29	2070.66	4.13	0.00	3.30	2.40	2.40
P-37	J-29	J-31	2070.66	14.68	0.00	3.30	2.40	2.40
P-38	J-31	J-33	2070.66	11.15	0.00	3.30	2.40	2.40
P-39	J-33	J-32	2070.66	2.33	0.00	3.30	2.40	2.40
P-4	O-Pump-2	J-9	545.61	2.68	0.00	2.23	2.01	2.01
P-40	J-32	J-35	2070.66	19.63	0.00	3.30	2.40	2.40
P-41	J-35	J-2	545.61	0.62	0.00	0.87	0.20	0.20
P-42	COUNTY HOU	J-36	205.50	0.05	0.00	1.31	0.98	0.98
P-43	CLOYD WILL	J-37	284.96	0.00	0.00	0.45	0.06	0.06
P-44	J-23	PERSIMMON	545.61	0.01	0.00	2.23	2.01	2.01
P-45	J-34	J-39	377.19	1.90	0.00	2.41	3.00	3.00
P-46	J-39	J-40	377.19	10.14	0.00	2.41	3.00	3.00
P-47	J-40	J-41	377.19	20.20	0.00	2.41	3.00	3.00
P-48	J-41	J-43	377.19	14.31	0.00	2.41	3.00	3.00
P-49	J-43	J-42	377.19	5.36	0.00	2.41	3.00	3.00
P-5	J-4	J-3	545.61	6.63	0.00	2.23	2.01	2.01
P-50	PERSIMMON	J-38	449.36	0.01	0.00	1.84	1.40	1.40
P-6	J-5	J-4	545.61	7.76	0.00	2.23	2.01	2.01
P-7	J-6	J-5	545.61	3.25	0.00	2.23	2.01	2.01
P-8	J-7	J-6	545.61	6.24	0.00	2.23	2.01	2.01
P-9	J-8	J-7	545.61	2.74	0.00	2.23	2.01	2.01

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS	
NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES	
(ft)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)			

Device "Pump-1" is closed										
143.9	Pump-2	545.61	110.76	334.79	224.0	75.00	31.	1.5	20.0	** **
43.1	Pump-3	2070.66	9.98	630.65	620.7	75.00	325.	16.1	96.9	** **

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1118.59	998.50	120.09	52.04
COUNTY HOU		----	1140.10	1009.00	131.10	56.81

J-1	0.00	1117.98	1028.00	89.98	38.99
J-10	0.00	1140.10	1020.00	120.10	52.04
J-11	0.00	1140.10	960.00	180.10	78.04
J-12	0.00	1140.10	785.00	355.10	153.88
J-13	0.00	1117.98	950.00	167.98	72.79
J-14	0.00	1117.98	780.00	337.98	146.46
J-15	0.00	1117.98	780.00	337.98	146.46
J-16	0.00	1117.98	915.00	202.98	87.96
J-17	0.00	1117.98	850.00	267.98	116.12
J-18	0.00	1117.98	990.00	127.98	55.46
J-19	0.00	1286.39	1030.00	256.39	111.10
J-2	0.00	1117.98	1000.00	117.98	51.12
J-20	0.00	1284.84	1050.00	234.84	101.76
J-21	0.00	1272.67	1050.00	222.67	96.49
J-22	0.00	1288.92	1005.00	283.92	123.03
J-23	0.00	1206.13	1090.00	116.13	50.32
J-24	0.00	1206.34	1090.00	116.34	50.41
J-25	0.00	1234.09	1060.00	174.09	75.44
J-26	0.00	1254.13	1020.00	234.13	101.46
J-27	0.00	1263.59	1070.00	193.59	83.89
J-28	0.00	1273.93	1050.00	223.93	97.04
J-29	0.00	1166.39	530.00	636.39	275.77
J-3	0.00	1291.19	1025.00	266.19	115.35
J-30	0.00	1170.52	530.00	640.52	277.56
J-31	0.00	1151.71	565.00	586.71	254.24
J-32	0.00	1138.23	900.00	238.23	103.23
J-33	0.00	1140.56	860.00	280.56	121.58
J-34	0.00	1263.25			
J-35	0.00	1118.60	1000.00	118.60	51.39
J-36	205.50 (1.37)	1140.05	1009.00	131.05	56.79
J-37	284.96 (1.37)	1118.59	998.50	120.09	52.04
J-38	449.36 (1.37)	1206.11			
J-39	0.00	1261.35	1070.00	191.35	82.92
J-4	0.00	1297.83	1010.00	287.83	124.72
J-40	0.00	1251.21	1040.00	211.21	91.52
J-41	0.00	1231.01	1070.00	161.01	69.77
J-42	0.00	1211.34	1130.00	81.34	35.25
J-43	0.00	1216.70	1130.00	86.70	37.57
J-5	0.00	1305.59	1040.00	265.59	115.09
J-6	0.00	1308.84	1050.00	258.84	112.16
J-7	0.00	1315.07	1000.00	315.07	136.53
J-8	0.00	1317.81	1021.00	296.81	128.62
J-9	0.00	1327.11	1040.00	287.11	124.41
PERSIMMON	----	1206.12	1115.00	91.12	39.49
I-Pump-1	0.00	1117.98			
O-Pump-2	0.00	1329.79	995.00	334.79	145.08
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1140.10			
I-Pump-2	0.00	1105.76	995.00	110.76	48.00
O-Pump-3	0.00	1170.65	540.00	630.65	273.28

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	277.56	I-Pump-3	4.33
J-29	275.77	J-42	35.25
O-Pump-3	273.28	J-43	37.57

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.48	P-43	0.45
P-27	3.48	P-41	0.87
P-36	3.30	P-1	1.08

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-26	5.95	P-43	0.06
P-27	5.95	P-1	0.19
P-48	3.00	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-26	5.95	P-43	0.06
P-27	5.95	P-1	0.19
P-48	3.00	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

(-) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1240.10	
COUNTY HOUS	205.50	
PERSIMMON	-96.25	
R-2	2070.66	

NET SYSTEM INFLOW = 2276.16
 NET SYSTEM OUTFLOW = -1336.34
 NET SYSTEM DEMAND = 939.82

Switch Activated

PRESSURE SWITCHES ACTIVATED

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-3 17.000	CLOSED	J-35	1118.60	1104.00

TIME FROM INITIATION OF EPS = 17.0000 HOURS (1700 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	545.59	0.00	0.00	0.39	0.03	0.03
P-10	J-9	J-8	545.59	9.30	0.00	2.23	2.01	2.01
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	545.59	2.27	0.00	2.23	2.01	2.01
P-22	J-19	J-20	545.59	1.55	0.00	2.23	2.01	2.01
P-23	J-20	J-21	377.18	12.17	0.00	2.41	3.00	3.00
P-24	J-22	J-19	545.59	2.53	0.00	2.23	2.01	2.01
P-25	J-20	J-28	168.41	10.91	0.00	1.91	2.74	2.74
P-26	J-42	J-24	545.59	5.00	0.00	3.48	5.95	5.95
P-27	J-24	J-23	545.59	0.21	0.00	3.48	5.95	5.95
P-28	J-25	J-42	168.41	22.75	0.00	1.91	2.74	2.74
P-29	J-26	J-25	168.41	20.03	0.00	1.91	2.74	2.74
P-3	J-2	I-Pump-2	545.59	12.22	0.00	2.23	2.01	2.01
P-30	J-27	J-26	168.41	9.46	0.00	1.91	2.74	2.74
P-31	J-28	J-27	168.41	10.34	0.00	1.91	2.74	2.74
P-32	J-21	J-34	377.18	9.42	0.00	2.41	3.00	3.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	545.59	2.68	0.00	2.23	2.01	2.01
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	545.59	0.62	0.00	0.87	0.20	0.20
P-42	COUNTY HOU	J-36	205.50	0.05	0.00	1.31	0.98	0.98
P-43	CLOYD WILL	J-37	284.96	0.00	0.00	0.45	0.06	0.06
P-44	J-23	PERSIMMON	545.59	0.01	0.00	2.23	2.01	2.01
P-45	J-34	J-39	377.18	1.90	0.00	2.41	3.00	3.00
P-46	J-39	J-40	377.18	10.14	0.00	2.41	3.00	3.00
P-47	J-40	J-41	377.18	20.20	0.00	2.41	3.00	3.00
P-48	J-41	J-43	377.18	14.31	0.00	2.41	3.00	3.00
P-49	J-43	J-42	377.18	5.36	0.00	2.41	3.00	3.00
P-5	J-4	J-3	545.59	6.63	0.00	2.23	2.01	2.01
P-50	PERSIMMON	J-38	449.36	0.01	0.00	1.84	1.40	1.40
P-6	J-5	J-4	545.59	7.76	0.00	2.23	2.01	2.01
P-7	J-6	J-5	545.59	3.25	0.00	2.23	2.01	2.01
P-8	J-7	J-6	545.59	6.24	0.00	2.23	2.01	2.01
P-9	J-8	J-7	545.59	2.74	0.00	2.23	2.01	2.01

PUMPL/LOSS ELEMENT RESULTS

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)										

Device "Pump-1" is closed
 Pump-2 545.59 110.75 334.79 224.0 75.00 31. 1.5 21.5 ** **
 143.9
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1118.59	998.50	120.09	52.04
COUNTY HOU		----	1140.10	1009.00	131.10	56.81
J-1		0.00	1117.97	1028.00	89.97	38.99
J-10		0.00	1140.10	1020.00	120.10	52.04
J-11		0.00	1140.10	960.00	180.10	78.04
J-12		0.00	1140.10	785.00	355.10	153.88
J-13		0.00	1117.97	950.00	167.97	72.79
J-14		0.00	1117.97	780.00	337.97	146.45
J-15		0.00	1117.97	780.00	337.97	146.45
J-16		0.00	1117.97	915.00	202.97	87.95
J-17		0.00	1117.97	850.00	267.97	116.12
J-18		0.00	1117.97	990.00	127.97	55.45
J-19		0.00	1286.38	1030.00	256.38	111.10
J-2		0.00	1117.97	1000.00	117.97	51.12
J-20		0.00	1284.84	1050.00	234.84	101.76
J-21		0.00	1272.67	1050.00	222.67	96.49
J-22		0.00	1288.92	1005.00	283.92	123.03
J-23		0.00	1206.13	1090.00	116.13	50.32
J-24		0.00	1206.34	1090.00	116.34	50.41
J-25		0.00	1234.09	1060.00	174.09	75.44
J-26		0.00	1254.12	1020.00	234.12	101.45
J-27		0.00	1263.59	1070.00	193.59	83.89
J-28		0.00	1273.93	1050.00	223.93	97.04
J-29		0.00	1118.59	530.00	588.59	255.05
J-3		0.00	1291.19	1025.00	266.19	115.35
J-30		0.00	1118.59	530.00	588.59	255.05
J-31		0.00	1118.59	565.00	553.59	239.89
J-32		0.00	1118.59	900.00	218.59	94.72
J-33		0.00	1118.59	860.00	258.59	112.05
J-34		0.00	1263.25			
J-35		0.00	1118.59	1000.00	118.59	51.39
J-36		205.50 (1.37)	1140.05	1009.00	131.05	56.79
J-37		284.96 (1.37)	1118.59	998.50	120.09	52.04
J-38		449.36 (1.37)	1206.11			
J-39		0.00	1261.35	1070.00	191.35	82.92
J-4		0.00	1297.82	1010.00	287.82	124.72
J-40		0.00	1251.20	1040.00	211.20	91.52
J-41		0.00	1231.00	1070.00	161.00	69.77
J-42		0.00	1211.34	1130.00	81.34	35.25
J-43		0.00	1216.70	1130.00	86.70	37.57
J-5		0.00	1305.58	1040.00	265.58	115.09
J-6		0.00	1308.83	1050.00	258.83	112.16
J-7		0.00	1315.07	1000.00	315.07	136.53
J-8		0.00	1317.80	1021.00	296.80	128.61
J-9		0.00	1327.10	1040.00	287.10	124.41

PERSIMMON	----	1206.12	1115.00	91.12	39.49
I-Pump-1	0.00	1117.97			
O-Pump-2	0.00	1329.79	995.00	334.79	145.07
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1140.10			
Pump-2	0.00	1105.75	995.00	110.75	47.99
Pump-3	0.00	1118.59	540.00	578.59	250.72

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	255.05	I-Pump-3	4.33
J-30	255.05	J-42	35.25
O-Pump-3	250.72	J-43	37.57

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.48	P-1	0.39
P-27	3.48	P-43	0.45
P-23	2.41	P-41	0.87

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.95	P-1	0.03
P-26	5.95	P-43	0.06
P-48	3.00	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.95	P-1	0.03
P-26	5.95	P-43	0.06
P-48	3.00	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	830.55	
COUNTY HOUS	205.50	
PERSIMMON	-96.23	

NET SYSTEM INFLOW = 1036.05
 NET SYSTEM OUTFLOW = -96.23
 NET SYSTEM DEMAND = 939.82

TANK STATUS REPORT (time = 17.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-830.55	1118.59	33.59	618915.	98.8	DRAINING	30.89
COUNTY HOUS (1)	-205.50	1140.10	22.10	324675.	71.3	DRAINING	21.26
PERSIMMON (1)	96.23	1206.12	16.12	175153.	62.0	FILLING	16.65

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 18.000

CHANGES FOR NEXT SIMULATION (time = 18.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 18.000

TIME FROM INITIATION OF EPS = 18.0000 HOURS (1800 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL J-35	542.04	0.00	0.00	0.38	0.03	0.03
P-10	J-9 J-8	542.04	9.19	0.00	2.21	1.98	1.98
P-11	J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3 J-22	542.04	2.24	0.00	2.21	1.98	1.98
P-22	J-19 J-20	542.04	1.53	0.00	2.21	1.98	1.98
P-23	J-20 J-21	374.72	12.03	0.00	2.39	2.97	2.97

P-24	J-22	J-19	542.04	2.50	0.00	2.21	1.98	1.98
P-25	J-20	J-28	167.31	10.78	0.00	1.90	2.70	2.70
P-26	J-42	J-24	542.04	4.94	0.00	3.46	5.88	5.88
P-27	J-24	J-23	542.04	0.21	0.00	3.46	5.88	5.88
P-28	J-25	J-42	167.31	22.48	0.00	1.90	2.70	2.70
P-29	J-26	J-25	167.31	19.79	0.00	1.90	2.70	2.70
P-3	J-2	I-Pump-2	542.04	12.07	0.00	2.21	1.98	1.98
P-30	J-27	J-26	167.31	9.35	0.00	1.90	2.70	2.70
P-31	J-28	J-27	167.31	10.22	0.00	1.90	2.70	2.70
P-32	J-21	J-34	374.72	9.30	0.00	2.39	2.97	2.97
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	542.04	2.65	0.00	2.21	1.98	1.98
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	542.04	0.61	0.00	0.86	0.20	0.20
P-42	COUNTY HOU	J-36	228.00	0.06	0.00	1.46	1.18	1.18
P-43	CLOYD WILL	J-37	316.16	0.00	0.00	0.50	0.07	0.07
P-44	J-23	PERSIMMON	542.04	0.01	0.00	2.21	1.98	1.98
P-45	J-34	J-39	374.72	1.88	0.00	2.39	2.97	2.97
P-46	J-39	J-40	374.72	10.02	0.00	2.39	2.97	2.97
P-47	J-40	J-41	374.72	19.96	0.00	2.39	2.97	2.97
P-48	J-41	J-43	374.72	14.13	0.00	2.39	2.97	2.97
P-49	J-43	J-42	374.72	5.30	0.00	2.39	2.97	2.97
P-5	J-4	J-3	542.04	6.55	0.00	2.21	1.98	1.98
P-50	PERSIMMON	J-38	498.56	0.02	0.00	2.04	1.70	1.70
P-6	J-5	J-4	542.04	7.67	0.00	2.21	1.98	1.98
P-7	J-6	J-5	542.04	3.21	0.00	2.21	1.98	1.98
P-8	J-7	J-6	542.04	6.16	0.00	2.21	1.98	1.98
P-9	J-8	J-7	542.04	2.70	0.00	2.21	1.98	1.98

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Pump-2 542.04 108.20 333.83 225.6 75.00 31. 1.5 23.0 ** **
141.3
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1115.89	998.50	117.39	50.87
COUNTY HOU		----	1139.26	1009.00	130.26	56.45
J-1		0.00	1115.27	1028.00	87.27	37.82
J-10		0.00	1139.26	1020.00	119.26	51.68

J-11	0.00	1139.26	960.00	179.26	77.68
J-12	0.00	1139.26	785.00	354.26	153.51
J-13	0.00	1115.27	950.00	165.27	71.62
J-14	0.00	1115.27	780.00	335.27	145.28
J-15	0.00	1115.27	780.00	335.27	145.28
J-16	0.00	1115.27	915.00	200.27	86.78
J-17	0.00	1115.27	850.00	265.27	114.95
J-18	0.00	1115.27	990.00	125.27	54.28
J-19	0.00	1285.95	1030.00	255.95	110.91
J-2	0.00	1115.27	1000.00	115.27	49.95
J-20	0.00	1284.42	1050.00	234.42	101.58
J-21	0.00	1272.40	1050.00	222.40	96.37
J-22	0.00	1288.45	1005.00	283.45	122.83
J-23	0.00	1206.66	1090.00	116.66	50.55
J-24	0.00	1206.87	1090.00	116.87	50.64
J-25	0.00	1234.29	1060.00	174.29	75.52
J-26	0.00	1254.08	1020.00	234.08	101.43
J-27	0.00	1263.43	1070.00	193.43	83.82
J-28	0.00	1273.64	1050.00	223.64	96.91
J-29	0.00	1115.88	530.00	585.88	253.88
J-3	0.00	1290.70	1025.00	265.70	115.14
J-30	0.00	1115.88	530.00	585.88	253.88
J-31	0.00	1115.88	565.00	550.88	238.72
J-32	0.00	1115.88	900.00	215.88	93.55
J-33	0.00	1115.88	860.00	255.88	110.88
J-34	0.00	1263.09			
J-35	0.00	1115.88	1000.00	115.88	50.22
J-36	228.00 (1.52)	1139.20	1009.00	130.20	56.42
J-37	316.16 (1.52)	1115.88	998.50	117.38	50.87
J-38	498.56 (1.52)	1206.64			
J-39	0.00	1261.21	1070.00	191.21	82.86
J-4	0.00	1297.25	1010.00	287.25	124.48
J-40	0.00	1251.19	1040.00	211.19	91.52
J-41	0.00	1231.24	1070.00	161.24	69.87
J-42	0.00	1211.81	1130.00	81.81	35.45
J-43	0.00	1217.10	1130.00	87.10	37.74
J-5	0.00	1304.92	1040.00	264.92	114.80
J-6	0.00	1308.13	1050.00	258.13	111.86
J-7	0.00	1314.29	1000.00	314.29	136.19
J-8	0.00	1316.99	1021.00	295.99	128.26
J-9	0.00	1326.18	1040.00	286.18	124.01
PERSIMMON	----	1206.65	1115.00	91.65	39.72
I-Pump-1	0.00	1115.27			
O-Pump-2	0.00	1328.83	995.00	333.83	144.66
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1139.26			
I-Pump-2	0.00	1103.20	995.00	108.20	46.89
O-Pump-3	0.00	1115.88	540.00	575.88	249.55

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.88	I-Pump-3	4.33
J-30	253.88	J-42	35.45
O-Pump-3	249.55	J-43	37.74

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.46	P-1	0.38
P-27	3.46	P-43	0.50
P-23	2.39	P-41	0.86

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.88	P-1	0.03
P-26	5.88	P-43	0.07
P-23	2.97	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.88	P-1	0.03
P-26	5.88	P-43	0.07
P-23	2.97	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	858.20	
COUNTY HOUS	228.00	
PERSIMMON	-43.48	
R-2	0.00	

NET SYSTEM INFLOW = 1086.20
NET SYSTEM OUTFLOW = -43.48
NET SYSTEM DEMAND = 1042.72

Switch Activated

PRESSURE SWITCHES ACTIVATED

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-1	OPENED	J-10	1139.26	1148.00

Time: 18.000

TIME FROM INITIATION OF EPS = 18.0000 HOURS (1800 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 7 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	967.35	0.00	0.00	0.69	0.08	0.08
P-10	J-9	J-8	540.73	9.15	0.00	2.21	1.97	1.97
P-11	J-1	J-18	426.62	9.87	0.00	2.72	3.77	3.77
P-12	J-10	COUNTY HOU	426.62	0.00	0.00	0.30	0.02	0.02
P-13	J-11	J-10	426.62	13.61	0.00	2.72	3.77	3.77
P-14	J-12	J-11	426.62	5.16	0.00	2.72	3.77	3.77
P-15	J-13	I-Pump-1	426.62	1.95	0.00	2.72	3.77	3.77
P-16	J-14	J-13	426.62	6.01	0.00	2.72	3.77	3.77
P-17	J-15	J-14	426.62	3.28	0.00	2.72	3.77	3.77
P-18	J-16	J-15	426.62	10.10	0.00	2.72	3.77	3.77
P-19	J-17	J-16	426.62	3.15	0.00	2.72	3.77	3.77
P-2	J-1	J-2	-426.62	0.49	0.00	2.72	3.77	3.77
P-20	J-18	J-17	426.62	25.76	0.00	2.72	3.77	3.77
P-21	J-3	J-22	540.73	2.23	0.00	2.21	1.97	1.97
P-22	J-19	J-20	540.73	1.52	0.00	2.21	1.97	1.97
P-23	J-20	J-21	373.82	11.97	0.00	2.39	2.95	2.95
P-24	J-22	J-19	540.73	2.49	0.00	2.21	1.97	1.97
P-25	J-20	J-28	166.91	10.73	0.00	1.89	2.69	2.69
P-26	J-42	J-24	540.73	4.92	0.00	3.45	5.85	5.85
P-27	J-24	J-23	540.73	0.20	0.00	3.45	5.85	5.85
P-28	J-25	J-42	166.91	22.38	0.00	1.89	2.69	2.69
P-29	J-26	J-25	166.91	19.70	0.00	1.89	2.69	2.69
P-3	J-2	I-Pump-2	540.73	12.02	0.00	2.21	1.97	1.97
P-30	J-27	J-26	166.91	9.30	0.00	1.89	2.69	2.69
P-31	J-28	J-27	166.91	10.17	0.00	1.89	2.69	2.69
P-32	J-21	J-34	373.82	9.26	0.00	2.39	2.95	2.95
P-33	O-Pump-1	J-12	426.62	5.15	0.00	2.72	3.77	3.77
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	540.73	2.64	0.00	2.21	1.97	1.97
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	967.35	1.80	0.00	1.54	0.59	0.59
P-42	COUNTY HOU	J-36	228.00	0.06	0.00	1.46	1.18	1.18
P-43	CLOYD WILL	J-37	316.16	0.00	0.00	0.50	0.07	0.07
P-44	J-23	PERSIMMON	540.73	0.01	0.00	2.21	1.97	1.97
P-45	J-34	J-39	373.82	1.87	0.00	2.39	2.95	2.95
P-46	J-39	J-40	373.82	9.97	0.00	2.39	2.95	2.95
P-47	J-40	J-41	373.82	19.87	0.00	2.39	2.95	2.95
P-48	J-41	J-43	373.82	14.07	0.00	2.39	2.95	2.95
P-49	J-43	J-42	373.82	5.27	0.00	2.39	2.95	2.95
P-5	J-4	J-3	540.73	6.52	0.00	2.21	1.97	1.97
P-50	PERSIMMON	J-38	498.56	0.02	0.00	2.04	1.70	1.70
P-6	J-5	J-4	540.73	7.63	0.00	2.21	1.97	1.97
P-7	J-6	J-5	540.73	3.19	0.00	2.21	1.97	1.97
P-8	J-7	J-6	540.73	6.13	0.00	2.21	1.97	1.97
P-9	J-8	J-7	540.73	2.69	0.00	2.21	1.97	1.97

PUMP LOSS ELEMENT RESULTS

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS
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NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
1086.6	426.62	1053.48	1163.19	109.7	75.00	12.	0.6	2.9	**	**
140.2	540.73	107.07	333.28	226.2	75.00	31.	1.5	24.6	**	**

Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1115.89	998.50	117.39	50.87
COUNTY HOU		----	1139.26	1009.00	130.26	56.45
J-1		0.00	1113.59	1028.00	85.59	37.09
J-10		0.00	1139.26	1020.00	119.26	51.68
J-11		0.00	1152.88	960.00	192.88	83.58
J-12		0.00	1158.04	785.00	373.04	161.65
J-13		0.00	1055.42	950.00	105.42	45.68
J-14		0.00	1061.44	780.00	281.44	121.96
J-15		0.00	1064.71	780.00	284.71	123.38
J-16		0.00	1074.82	915.00	159.82	69.25
J-17		0.00	1077.97	850.00	227.97	98.79
J-18		0.00	1103.73	990.00	113.73	49.28
J-19		0.00	1285.59	1030.00	255.59	110.76
J-2		0.00	1114.08	1000.00	114.08	49.44
J-20		0.00	1284.07	1050.00	234.07	101.43
J-21		0.00	1272.10	1050.00	222.10	96.24
J-22		0.00	1288.09	1005.00	283.09	122.67
J-23		0.00	1206.66	1090.00	116.66	50.55
J-24		0.00	1206.87	1090.00	116.87	50.64
J-25		0.00	1234.16	1060.00	174.16	75.47
J-26		0.00	1253.87	1020.00	233.87	101.34
J-27		0.00	1263.17	1070.00	193.17	83.71
J-28		0.00	1273.34	1050.00	223.34	96.78
J-29		0.00	1115.88	530.00	585.88	253.88
J-3		0.00	1290.32	1025.00	265.32	114.97
J-30		0.00	1115.88	530.00	585.88	253.88
J-31		0.00	1115.88	565.00	550.88	238.72
J-32		0.00	1115.88	900.00	215.88	93.55
J-33		0.00	1115.88	860.00	255.88	110.88
J-34		0.00	1262.84			
J-35		0.00	1115.88	1000.00	115.88	50.22
J-36		228.00 (1.52)	1139.20	1009.00	130.20	56.42
J-37		316.16 (1.52)	1115.88	998.50	117.38	50.87
J-38		498.56 (1.52)	1206.64			
J-39		0.00	1260.97	1070.00	190.97	82.75
J-4		0.00	1296.84	1010.00	286.84	124.30
J-40		0.00	1250.99	1040.00	210.99	91.43
J-41		0.00	1231.13	1070.00	161.13	69.82
J-42		0.00	1211.78	1130.00	81.78	35.44
J-43		0.00	1217.06	1130.00	87.06	37.72
J-5		0.00	1304.48	1040.00	264.48	114.61
J-6		0.00	1307.67	1050.00	257.67	111.66
J-7		0.00	1313.81	1000.00	313.81	135.98
J-8		0.00	1316.50	1021.00	295.50	128.05
J-9		0.00	1325.64	1040.00	285.64	123.78
PERSIMMON		----	1206.65	1115.00	91.65	39.72

I-Pump-1	0.00	1053.48			
O-Pump-2	0.00	1328.28	995.00	333.28	144.42
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1163.19			
I-Pump-2	0.00	1102.07	995.00	107.07	46.40
Pump-3	0.00	1115.88	540.00	575.88	249.55

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.88	I-Pump-3	4.33
J-30	253.88	J-42	35.44
O-Pump-3	249.55	J-1	37.09

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.45	P-12	0.30
P-27	3.45	P-43	0.50
P-11	2.72	P-1	0.69

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.85	P-12	0.02
P-26	5.85	P-43	0.07
P-11	3.77	P-1	0.08

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.85	P-12	0.02
P-26	5.85	P-43	0.07
P-11	3.77	P-1	0.08

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1283.51	
COUNTY HOUS	-198.62	
PERSIMMON	-42.17	
R-2	0.00	

NET SYSTEM INFLOW = 1283.51
 NET SYSTEM OUTFLOW = -240.79
 NET SYSTEM DEMAND = 1042.72

TANK STATUS REPORT (time = 18.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-1283.51	1115.89	30.89	569082.	90.8	DRAINING	26.71
COUNTY HOUS (1)	198.62	1139.26	21.26	312345.	68.6	FILLING	22.08
PERSIMMON (1)	42.17	1206.65	16.65	180927.	64.1	FILLING	16.89

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 19.000

CHANGES FOR NEXT SIMULATION (time = 19.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 19.000

TIME FROM INITIATION OF EPS = 19.0000 HOURS (1900 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	952.37	0.00	0.00	0.68	0.08	0.08
P-10	J-9	J-8	535.85	9.00	0.00	2.19	1.94	1.94
P-11	J-1	J-18	416.52	9.44	0.00	2.66	3.61	3.61
P-12	J-10	COUNTY HOU	416.52	0.00	0.00	0.30	0.02	0.02
P-13	J-11	J-10	416.52	13.02	0.00	2.66	3.61	3.61
P-14	J-12	J-11	416.52	4.94	0.00	2.66	3.61	3.61
P-15	J-13	I-Pump-1	416.52	1.86	0.00	2.66	3.61	3.61
P-16	J-14	J-13	416.52	5.75	0.00	2.66	3.61	3.61
P-17	J-15	J-14	416.52	3.14	0.00	2.66	3.61	3.61
P-18	J-16	J-15	416.52	9.66	0.00	2.66	3.61	3.61
P-19	J-17	J-16	416.52	3.01	0.00	2.66	3.61	3.61
P-2	J-1	J-2	-416.52	0.47	0.00	2.66	3.61	3.61
P-20	J-18	J-17	416.52	24.64	0.00	2.66	3.61	3.61
P-21	J-3	J-22	535.85	2.20	0.00	2.19	1.94	1.94
P-22	J-19	J-20	535.85	1.49	0.00	2.19	1.94	1.94
P-23	J-20	J-21	370.44	11.77	0.00	2.36	2.90	2.90
P-24	J-22	J-19	535.85	2.45	0.00	2.19	1.94	1.94

P-25	J-20	J-28	165.40	10.55	0.00	1.88	2.65	2.65
P-26	J-42	J-24	535.85	4.83	0.00	3.42	5.75	5.75
P-27	J-24	J-23	535.85	0.20	0.00	3.42	5.75	5.75
P-28	J-25	J-42	165.40	22.01	0.00	1.88	2.65	2.65
P-29	J-26	J-25	165.40	19.38	0.00	1.88	2.65	2.65
P-3	J-2	I-Pump-2	535.85	11.82	0.00	2.19	1.94	1.94
P-30	J-27	J-26	165.40	9.15	0.00	1.88	2.65	2.65
P-31	J-28	J-27	165.40	10.00	0.00	1.88	2.65	2.65
P-32	J-21	J-34	370.44	9.11	0.00	2.36	2.90	2.90
P-33	O-Pump-1	J-12	416.52	4.93	0.00	2.66	3.61	3.61
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	535.85	2.59	0.00	2.19	1.94	1.94
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	952.37	1.75	0.00	1.52	0.57	0.57
P-42	COUNTY HOU	J-36	255.00	0.07	0.00	1.63	1.45	1.45
P-43	CLOYD WILL	J-37	353.60	0.00	0.00	0.56	0.09	0.09
P-44	J-23	PERSIMMON	535.85	0.01	0.00	2.19	1.94	1.94
P-45	J-34	J-39	370.44	1.84	0.00	2.36	2.90	2.90
P-46	J-39	J-40	370.44	9.81	0.00	2.36	2.90	2.90
P-47	J-40	J-41	370.44	19.54	0.00	2.36	2.90	2.90
P-48	J-41	J-43	370.44	13.84	0.00	2.36	2.90	2.90
P-49	J-43	J-42	370.44	5.19	0.00	2.36	2.90	2.90
P-5	J-4	J-3	535.85	6.41	0.00	2.19	1.94	1.94
P-50	PERSIMMON	J-38	557.60	0.02	0.00	2.28	2.09	2.09
P-6	J-5	J-4	535.85	7.51	0.00	2.19	1.94	1.94
P-7	J-6	J-5	535.85	3.14	0.00	2.19	1.94	1.94
P-8	J-7	J-6	535.85	6.03	0.00	2.19	1.94	1.94
P-9	J-8	J-7	535.85	2.65	0.00	2.19	1.94	1.94

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS
NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

1085.1	Pump-1	416.52	1051.98	1162.97	111.0	75.00	12.	0.6	3.5	**	**
136.3	Pump-2	535.85	103.14	331.49	228.4	75.00	31.	1.5	26.1	**	**

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
	(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL	----	1111.71	998.50	113.21	49.06
COUNTY HOU	----	1140.08	1009.00	131.08	56.80
J-1	0.00	1109.48	1028.00	81.48	35.31
J-10	0.00	1140.08	1020.00	120.08	52.03

J-11	0.00	1153.10	960.00	193.10	83.68
J-12	0.00	1158.03	785.00	373.03	161.65
J-13	0.00	1053.84	950.00	103.84	45.00
J-14	0.00	1059.59	780.00	279.59	121.16
J-15	0.00	1062.73	780.00	282.73	122.52
J-16	0.00	1072.39	915.00	157.39	68.20
J-17	0.00	1075.41	850.00	225.41	97.68
J-18	0.00	1100.05	990.00	110.05	47.69
J-19	0.00	1284.51	1030.00	254.51	110.29
J-2	0.00	1109.96	1000.00	109.96	47.65
J-20	0.00	1283.02	1050.00	233.02	100.97
J-21	0.00	1271.25	1050.00	221.25	95.87
J-22	0.00	1286.96	1005.00	281.96	122.18
J-23	0.00	1206.89	1090.00	116.89	50.65
J-24	0.00	1207.10	1090.00	117.10	50.74
J-25	0.00	1233.94	1060.00	173.94	75.37
J-26	0.00	1253.31	1020.00	233.31	101.10
J-27	0.00	1262.46	1070.00	192.46	83.40
J-28	0.00	1272.47	1050.00	222.47	96.40
J-29	0.00	1111.70	530.00	581.70	252.07
J-3	0.00	1289.16	1025.00	264.16	114.47
J-30	0.00	1111.70	530.00	581.70	252.07
J-31	0.00	1111.70	565.00	546.70	236.90
J-32	0.00	1111.70	900.00	211.70	91.74
J-33	0.00	1111.70	860.00	251.70	109.07
J-34	0.00	1262.14			
J-35	0.00	1111.70	1000.00	111.70	48.40
J-36	255.00 (1.70)	1140.00	1009.00	131.00	56.77
J-37	353.60 (1.70)	1111.70	998.50	113.20	49.05
J-38	557.60 (1.70)	1206.87			
J-39	0.00	1260.30	1070.00	190.30	82.46
J-4	0.00	1295.58	1010.00	285.58	123.75
J-40	0.00	1250.49	1040.00	210.49	91.21
J-41	0.00	1230.95	1070.00	160.95	69.75
J-42	0.00	1211.93	1130.00	81.93	35.50
J-43	0.00	1217.12	1130.00	87.12	37.75
J-5	0.00	1303.08	1040.00	263.08	114.00
J-6	0.00	1306.22	1050.00	256.22	111.03
J-7	0.00	1312.26	1000.00	312.26	135.31
J-8	0.00	1314.90	1021.00	293.90	127.36
J-9	0.00	1323.90	1040.00	283.90	123.02
PERSIMMON	----	1206.89	1115.00	91.89	39.82
I-Pump-1	0.00	1051.98			
O-Pump-2	0.00	1326.49	995.00	331.49	143.65
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1162.97			
I-Pump-2	0.00	1098.14	995.00	103.14	44.69
O-Pump-3	0.00	1111.70	540.00	571.70	247.74

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	252.07	I-Pump-3	4.33
J-30	252.07	J-1	35.31
O-Pump-3	247.74	J-42	35.50

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.42	P-12	0.30
P-27	3.42	P-43	0.56
P-11	2.66	P-1	0.68

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.75	P-12	0.02
P-26	5.75	P-1	0.08
P-11	3.61	P-43	0.09

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.75	P-12	0.02
P-26	5.75	P-1	0.08
P-11	3.61	P-43	0.09

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1305.97	
COUNTY HOUS	-161.52	
PERSIMMON	21.75	
R-2	0.00	

NET SYSTEM INFLOW = 1327.72
NET SYSTEM OUTFLOW = -161.52
NET SYSTEM DEMAND = 1166.20

T A N K S T A T U S R E P O R T (time = 19.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-1305.97	1111.71	26.71	492071.	78.5	DRAINING	22.45
COUNTY HOUS (1)	161.52	1140.08	22.08	324262.	71.2	FILLING	22.74
PERSIMMON (1)	-21.75	1206.89	16.89	183457.	64.9	DRAINING	16.77

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 20.000

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JULIATION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 20.000

TIME FROM INITIATION OF EPS = 20.0000 HOURS (2000 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	937.58	0.00	0.00	0.66	0.08	0.08
P-10		J-9 J-8	531.22	8.85	0.00	2.17	1.91	1.91
P-11		J-1 J-18	406.36	9.02	0.00	2.59	3.45	3.45
P-12		J-10COUNTY HOU	406.36	0.00	0.00	0.29	0.02	0.02
P-13		J-11 J-10	406.36	12.44	0.00	2.59	3.45	3.45
P-14		J-12 J-11	406.36	4.72	0.00	2.59	3.45	3.45
P-15		J-13 I-Pump-1	406.36	1.78	0.00	2.59	3.45	3.45
P-16		J-14 J-13	406.36	5.49	0.00	2.59	3.45	3.45
P-17		J-15 J-14	406.36	3.00	0.00	2.59	3.45	3.45
P-18		J-16 J-15	406.36	9.23	0.00	2.59	3.45	3.45
P-19		J-17 J-16	406.36	2.88	0.00	2.59	3.45	3.45
P-2		J-1 J-2	-406.36	0.45	0.00	2.59	3.45	3.45
P-20		J-18 J-17	406.36	23.54	0.00	2.59	3.45	3.45
P-21		J-3 J-22	531.22	2.16	0.00	2.17	1.91	1.91
P-22		J-19 J-20	531.22	1.47	0.00	2.17	1.91	1.91
P-23		J-20 J-21	367.24	11.59	0.00	2.34	2.86	2.86
P-24		J-22 J-19	531.22	2.41	0.00	2.17	1.91	1.91
P-25		J-20 J-28	163.98	10.39	0.00	1.86	2.61	2.61
P-26		J-42 J-24	531.22	4.76	0.00	3.39	5.66	5.66
P-27		J-24 J-23	531.22	0.20	0.00	3.39	5.66	5.66
P-28		J-25 J-42	163.98	21.66	0.00	1.86	2.61	2.61
P-29		J-26 J-25	163.98	19.07	0.00	1.86	2.61	2.61
P-3		J-2 I-Pump-2	531.22	11.63	0.00	2.17	1.91	1.91
P-30		J-27 J-26	163.98	9.00	0.00	1.86	2.61	2.61
P-31		J-28 J-27	163.98	9.84	0.00	1.86	2.61	2.61
P-32		J-21 J-34	367.24	8.96	0.00	2.34	2.86	2.86
P-33		O-Pump-1 J-12	406.36	4.71	0.00	2.59	3.45	3.45
P-34		O-Pump-3 J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35		I-Pump-3 R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36		J-30 J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37		J-29 J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38		J-31 J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39		J-33 J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4		O-Pump-2 J-9	531.22	2.55	0.00	2.17	1.91	1.91
P-40		J-32 J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41		J-35 J-2	937.58	1.70	0.00	1.50	0.55	0.55
P-42		COUNTY HOU J-36	262.50	0.08	0.00	1.68	1.53	1.53
P-43		CLOYD WILL J-37	364.00	0.00	0.00	0.58	0.10	0.10
P-44		J-23 PERSIMMON	531.22	0.01	0.00	2.17	1.91	1.91
P-45		J-34 J-39	367.24	1.81	0.00	2.34	2.86	2.86
P-46		J-39 J-40	367.24	9.65	0.00	2.34	2.86	2.86
P-47		J-40 J-41	367.24	19.23	0.00	2.34	2.86	2.86

P-48	J-41	J-43	367.24	13.62	0.00	2.34	2.86	2.86
P-49	J-43	J-42	367.24	5.10	0.00	2.34	2.86	2.86
P-5	J-4	J-3	531.22	6.31	0.00	2.17	1.91	1.91
P-50	PERSIMMON	J-38	574.00	0.02	0.00	2.34	2.20	2.20
P-6	J-5	J-4	531.22	7.39	0.00	2.17	1.91	1.91
P-7	J-6	J-5	531.22	3.09	0.00	2.17	1.91	1.91
P-8	J-7	J-6	531.22	5.94	0.00	2.17	1.91	1.91
P-9	J-8	J-7	531.22	2.60	0.00	2.17	1.91	1.91

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TOTAL	#PUMPS	#PUMPS
NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
1083.5	406.36	1050.37	1162.60	112.2	75.00	12.	0.6	4.0	** **
132.3	531.22	99.13	329.47	230.3	75.00	31.	1.5	27.6	** **
Device "Pump-3" is closed									

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1107.45	998.50	108.95	47.21
COUNTY HOU		----	1140.73	1009.00	131.73	57.09
J-1		0.00	1105.30	1028.00	77.30	33.50
J-10		0.00	1140.74	1020.00	120.74	52.32
J-11		0.00	1153.17	960.00	193.17	83.71
J-12		0.00	1157.89	785.00	372.89	161.59
J-13		0.00	1052.15	950.00	102.15	44.26
J-14		0.00	1057.64	780.00	277.64	120.31
J-15		0.00	1060.64	780.00	280.64	121.61
J-16		0.00	1069.87	915.00	154.87	67.11
J-17		0.00	1072.75	850.00	222.75	96.52
J-18		0.00	1096.29	990.00	106.29	46.06
J-19		0.00	1283.16	1030.00	253.16	109.70
J-2		0.00	1105.75	1000.00	105.75	45.83
J-20		0.00	1281.69	1050.00	231.69	100.40
J-21		0.00	1270.10	1050.00	220.10	95.38
J-22		0.00	1285.57	1005.00	280.57	121.58
J-23		0.00	1206.77	1090.00	116.77	50.60
J-24		0.00	1206.97	1090.00	116.97	50.69
J-25		0.00	1233.39	1060.00	173.39	75.13
J-26		0.00	1252.45	1020.00	232.45	100.73
J-27		0.00	1261.46	1070.00	191.46	82.96
J-28		0.00	1271.30	1050.00	221.30	95.90
J-29		0.00	1107.45	530.00	577.45	250.23
J-3		0.00	1287.73	1025.00	262.73	113.85
J-30		0.00	1107.45	530.00	577.45	250.23
J-31		0.00	1107.45	565.00	542.45	235.06
J-32		0.00	1107.45	900.00	207.45	89.89
J-33		0.00	1107.45	860.00	247.45	107.23

J-34	0.00	1261.14			
J-35	0.00	1107.45	1000.00	107.45	46.56
J-36	262.50(1.75)	1140.66	1009.00	131.66	57.05
J-37	364.00(1.75)	1107.45	998.50	108.95	47.21
J-38	574.00(1.75)	1206.74			
J-39	0.00	1259.33	1070.00	189.33	82.04
J-4	0.00	1294.04	1010.00	284.04	123.09
J-40	0.00	1249.67	1040.00	209.67	90.86
J-41	0.00	1230.45	1070.00	160.45	69.53
J-42	0.00	1211.73	1130.00	81.73	35.42
J-43	0.00	1216.83	1130.00	86.83	37.63
J-5	0.00	1301.43	1040.00	261.43	113.29
J-6	0.00	1304.52	1050.00	254.52	110.29
J-7	0.00	1310.46	1000.00	310.46	134.53
J-8	0.00	1313.06	1021.00	292.06	126.56
J-9	0.00	1321.91	1040.00	281.91	122.16
PERSIMMON	----	1206.77	1115.00	91.77	39.77
I-Pump-1	0.00	1050.37			
O-Pump-2	0.00	1324.47	995.00	329.47	142.77
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1162.60			
I-Pump-2	0.00	1094.13	995.00	99.13	42.95
O-Pump-3	0.00	1107.45	540.00	567.45	245.89

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.23	I-Pump-3	4.33
J-30	250.23	J-1	33.50
O-Pump-3	245.89	J-42	35.42

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.39	P-12	0.29
P-27	3.39	P-43	0.58
P-11	2.59	P-1	0.66

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.66	P-12	0.02
P-26	5.66	P-1	0.08
P-11	3.45	P-43	0.10

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.66	P-12	0.02

P-26	5.66	P-1	0.08
P-11	3.45	P-43	0.10

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1301.58	
COUNTY HOUS	-143.86	
PERSIMMON	42.78	
R-2	0.00	

NET SYSTEM INFLOW = 1344.36
 NET SYSTEM OUTFLOW = -143.86
 NET SYSTEM DEMAND = 1200.50

T A N K S T A T U S R E P O R T (time = 20.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-1301.58	1107.45	22.45	413713.	66.0	DRAINING	18.21
COUNTY HOUS (1)	143.86	1140.73	22.73	333954.	73.3	FILLING	23.32
PERSIMMON (1)	-42.78	1206.77	16.77	182152.	64.5	DRAINING	16.53

TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 21.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 21.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 21.000

TIME FROM INITIATION OF EPS = 21.0000 HOURS (2100 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						

P-1	CLOYD WILL	J-35	922.84	0.00	0.00	0.65	0.07	0.07
P-10	J-9	J-8	526.68	8.71	0.00	2.15	1.88	1.88
P-11	J-1	J-18	396.16	8.60	0.00	2.53	3.29	3.29
P-12	J-10	COUNTY HOU	396.16	0.00	0.00	0.28	0.02	0.02
P-13	J-11	J-10	396.16	11.87	0.00	2.53	3.29	3.29
P-14	J-12	J-11	396.16	4.50	0.00	2.53	3.29	3.29
P-15	J-13	I-Pump-1	396.16	1.70	0.00	2.53	3.29	3.29
P-16	J-14	J-13	396.16	5.24	0.00	2.53	3.29	3.29
P-17	J-15	J-14	396.16	2.86	0.00	2.53	3.29	3.29
P-18	J-16	J-15	396.16	8.81	0.00	2.53	3.29	3.29
P-19	J-17	J-16	396.16	2.75	0.00	2.53	3.29	3.29
P-2	J-1	J-2	-396.16	0.43	0.00	2.53	3.29	3.29
P-20	J-18	J-17	396.16	22.46	0.00	2.53	3.29	3.29
P-21	J-3	J-22	526.68	2.13	0.00	2.15	1.88	1.88
P-22	J-19	J-20	526.68	1.45	0.00	2.15	1.88	1.88
P-23	J-20	J-21	364.11	11.40	0.00	2.32	2.81	2.81
P-24	J-22	J-19	526.68	2.37	0.00	2.15	1.88	1.88
P-25	J-20	J-28	162.57	10.22	0.00	1.84	2.56	2.56
P-26	J-42	J-24	526.68	4.68	0.00	3.36	5.57	5.57
P-27	J-24	J-23	526.68	0.19	0.00	3.36	5.57	5.57
P-28	J-25	J-42	162.57	21.31	0.00	1.84	2.56	2.56
P-29	J-26	J-25	162.57	18.77	0.00	1.84	2.56	2.56
P-3	J-2	I-Pump-2	526.68	11.44	0.00	2.15	1.88	1.88
P-30	J-27	J-26	162.57	8.86	0.00	1.84	2.56	2.56
P-31	J-28	J-27	162.57	9.69	0.00	1.84	2.56	2.56
P-32	J-21	J-34	364.11	8.82	0.00	2.32	2.81	2.81
P-33	O-Pump-1	J-12	396.16	4.49	0.00	2.53	3.29	3.29
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	526.68	2.51	0.00	2.15	1.88	1.88
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	922.84	1.65	0.00	1.47	0.54	0.54
P-42	COUNTY HOU	J-36	250.50	0.07	0.00	1.60	1.41	1.41
P-43	CLOYD WILL	J-37	347.36	0.00	0.00	0.55	0.09	0.09
P-44	J-23	PERSIMMON	526.68	0.01	0.00	2.15	1.88	1.88
P-45	J-34	J-39	364.11	1.78	0.00	2.32	2.81	2.81
P-46	J-39	J-40	364.11	9.50	0.00	2.32	2.81	2.81
P-47	J-40	J-41	364.11	18.92	0.00	2.32	2.81	2.81
P-48	J-41	J-43	364.11	13.40	0.00	2.32	2.81	2.81
P-49	J-43	J-42	364.11	5.02	0.00	2.32	2.81	2.81
P-5	J-4	J-3	526.68	6.21	0.00	2.15	1.88	1.88
P-50	PERSIMMON	J-38	547.76	0.02	0.00	2.24	2.02	2.02
P-6	J-5	J-4	526.68	7.27	0.00	2.15	1.88	1.88
P-7	J-6	J-5	526.68	3.04	0.00	2.15	1.88	1.88
P-8	J-7	J-6	526.68	5.84	0.00	2.15	1.88	1.88
P-9	J-8	J-7	526.68	2.56	0.00	2.15	1.88	1.88

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
Pump-1	396.16	1048.73	1162.18	113.5	75.00	11.	0.6	4.6	** **

1081.8

Pump-2 526.68 95.12 327.37 232.3 75.00 31. 1.5 29.2 ** **

128.2

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1103.21	998.50	104.71	45.38
COUNTY HOU		----	1141.32	1009.00	132.32	57.34
J-1		0.00	1101.13	1028.00	73.13	31.69
J-10		0.00	1141.32	1020.00	121.32	52.57
J-11		0.00	1153.19	960.00	193.19	83.72
J-12		0.00	1157.69	785.00	372.69	161.50
J-13		0.00	1050.42	950.00	100.42	43.52
J-14		0.00	1055.67	780.00	275.67	119.46
J-15		0.00	1058.52	780.00	278.52	120.69
J-16		0.00	1067.33	915.00	152.33	66.01
J-17		0.00	1070.08	850.00	220.08	95.37
J-18		0.00	1092.53	990.00	102.53	44.43
J-19		0.00	1281.72	1030.00	251.72	109.08
J-2		0.00	1101.56	1000.00	101.56	44.01
J-20		0.00	1280.27	1050.00	230.27	99.78
J-21		0.00	1268.86	1050.00	218.86	94.84
J-22		0.00	1284.09	1005.00	279.09	120.94
J-23		0.00	1206.54	1090.00	116.54	50.50
J-24		0.00	1206.73	1090.00	116.73	50.58
J-25		0.00	1232.73	1060.00	172.73	74.85
J-26		0.00	1251.50	1020.00	231.50	100.32
J-27		0.00	1260.36	1070.00	190.36	82.49
J-28		0.00	1270.05	1050.00	220.05	95.35
J-29		0.00	1103.21	530.00	573.21	248.39
J-3		0.00	1286.22	1025.00	261.22	113.19
J-30		0.00	1103.21	530.00	573.21	248.39
J-31		0.00	1103.21	565.00	538.21	233.22
J-32		0.00	1103.21	900.00	203.21	88.06
J-33		0.00	1103.21	860.00	243.21	105.39
J-34		0.00	1260.04			
J-35		0.00	1103.21	1000.00	103.21	44.72
J-36		250.50 (1.67)	1141.25	1009.00	132.25	57.31
J-37		347.36 (1.67)	1103.21	998.50	104.71	45.37
J-38		547.76 (1.67)	1206.51			
J-39		0.00	1258.26	1070.00	188.26	81.58
J-4		0.00	1292.43	1010.00	282.43	122.39
J-40		0.00	1248.76	1040.00	208.76	90.46
J-41		0.00	1229.84	1070.00	159.84	69.26
J-42		0.00	1211.42	1130.00	81.42	35.28
J-43		0.00	1216.44	1130.00	86.44	37.46
J-5		0.00	1299.70	1040.00	259.70	112.54
J-6		0.00	1302.74	1050.00	252.74	109.52
J-7		0.00	1308.58	1000.00	308.58	133.72
J-8		0.00	1311.15	1021.00	290.15	125.73
J-9		0.00	1319.86	1040.00	279.86	121.27
PERSIMMON		----	1206.53	1115.00	91.53	39.66
I-Pump-1		0.00	1048.73			
O-Pump-2		0.00	1322.37	995.00	327.37	141.86
Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1162.18			
I-Pump-2		0.00	1090.12	995.00	95.12	41.22
O-Pump-3		0.00	1103.21	540.00	563.21	244.06

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	248.39	I-Pump-3	4.33
J-30	248.39	J-1	31.69
O-Pump-3	244.06	J-42	35.28

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.36	P-12	0.28
P-27	3.36	P-43	0.55
P-11	2.53	P-1	0.65

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.57	P-12	0.02
P-26	5.57	P-1	0.07
P-20	3.29	P-43	0.09

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.57	P-12	0.02
P-26	5.57	P-1	0.07
P-20	3.29	P-43	0.09

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1270.20	
COUNTY HOUS	-145.66	
PERSIMMON	21.08	
R-2	0.00	

NET SYSTEM INFLOW = 1291.28
 NET SYSTEM OUTFLOW = -145.66
 NET SYSTEM DEMAND = 1145.62

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-3	OPENED	J-35	1103.21	1116.00
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Time: 21.000

TIME FROM INITIATION OF EPS = 21.0000 HOURS (2100 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 6 TRIALS: ACCURACY = 0.00003

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL J-35	-1195.83	0.01	0.00	0.85	0.12	0.12
P-10	J-9 J-8	526.69	8.71	0.00	2.15	1.88	1.88
P-11	J-1 J-18	396.18	8.60	0.00	2.53	3.29	3.29
P-12	J-10COUNTY HOU	396.18	0.00	0.00	0.28	0.02	0.02
P-13	J-11 J-10	396.18	11.87	0.00	2.53	3.29	3.29
P-14	J-12 J-11	396.18	4.50	0.00	2.53	3.29	3.29
P-15	J-13 I-Pump-1	396.18	1.70	0.00	2.53	3.29	3.29
P-16	J-14 J-13	396.18	5.24	0.00	2.53	3.29	3.29
P-17	J-15 J-14	396.18	2.86	0.00	2.53	3.29	3.29
P-18	J-16 J-15	396.18	8.81	0.00	2.53	3.29	3.29
P-19	J-17 J-16	396.18	2.75	0.00	2.53	3.29	3.29
P-2	J-1 J-2	-396.18	0.43	0.00	2.53	3.29	3.29
P-20	J-18 J-17	396.18	22.46	0.00	2.53	3.29	3.29
P-21	J-3 J-22	526.69	2.13	0.00	2.15	1.88	1.88
P-22	J-19 J-20	526.69	1.45	0.00	2.15	1.88	1.88
P-23	J-20 J-21	364.11	11.40	0.00	2.32	2.81	2.81
P-24	J-22 J-19	526.69	2.37	0.00	2.15	1.88	1.88
P-25	J-20 J-28	162.58	10.22	0.00	1.84	2.56	2.56
P-26	J-42 J-24	526.69	4.68	0.00	3.36	5.57	5.57
P-27	J-24 J-23	526.69	0.19	0.00	3.36	5.57	5.57
P-28	J-25 J-42	162.58	21.32	0.00	1.84	2.56	2.56
P-29	J-26 J-25	162.58	18.77	0.00	1.84	2.56	2.56
P-3	J-2 I-Pump-2	526.69	11.44	0.00	2.15	1.88	1.88
P-30	J-27 J-26	162.58	8.86	0.00	1.84	2.56	2.56
P-31	J-28 J-27	162.58	9.69	0.00	1.84	2.56	2.56
P-32	J-21 J-34	364.11	8.82	0.00	2.32	2.81	2.81
P-33	O-Pump-1 J-12	396.18	4.49	0.00	2.53	3.29	3.29
P-34	O-Pump-3 J-30	2118.70	0.14	0.00	1.50	0.35	0.35
P-35	I-Pump-3 R-2	-2118.70	0.02	0.00	1.50	0.35	0.35
P-36	J-30 J-29	2118.70	4.31	0.00	3.38	2.51	2.51
P-37	J-29 J-31	2118.70	15.31	0.00	3.38	2.51	2.51
P-38	J-31 J-33	2118.70	11.64	0.00	3.38	2.51	2.51
P-39	J-33 J-32	2118.70	2.43	0.00	3.38	2.51	2.51
P-4	O-Pump-2 J-9	526.69	2.51	0.00	2.15	1.88	1.88
P-40	J-32 J-35	2118.70	20.48	0.00	3.38	2.51	2.51
P-41	J-35 J-2	922.87	1.65	0.00	1.47	0.54	0.54
P-42	COUNTY HOU J-36	250.50	0.07	0.00	1.60	1.41	1.41
P-43	CLOYD WILL J-37	347.36	0.00	0.00	0.55	0.09	0.09
P-44	J-23 PERSIMMON	526.69	0.01	0.00	2.15	1.88	1.88
P-45	J-34 J-39	364.11	1.78	0.00	2.32	2.81	2.81
P-46	J-39 J-40	364.11	9.50	0.00	2.32	2.81	2.81
P-47	J-40 J-41	364.11	18.92	0.00	2.32	2.81	2.81

P-48	J-41	J-43	364.11	13.40	0.00	2.32	2.81	2.81
P-49	J-43	J-42	364.11	5.02	0.00	2.32	2.81	2.81
P-5	J-4	J-3	526.69	6.21	0.00	2.15	1.88	1.88
P-50	PERSIMMON	J-38	547.76	0.02	0.00	2.24	2.02	2.02
P-6	J-5	J-4	526.69	7.27	0.00	2.15	1.88	1.88
P-7	J-6	J-5	526.69	3.04	0.00	2.15	1.88	1.88
P-8	J-7	J-6	526.69	5.84	0.00	2.15	1.88	1.88
P-9	J-8	J-7	526.69	2.56	0.00	2.15	1.88	1.88

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS
NAME	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Pump-1	1048.73	1162.19	113.5	75.00	11.	0.6	5.2	**	**
1081.8									
Pump-2	95.13	327.38	232.2	75.00	31.	1.5	30.7	**	**
128.3									
Pump-3	9.98	617.53	607.5	75.00	325.	16.1	113.0	**	**
43.1									

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)

CLOYD WILL		----	1103.21	998.50	104.71	45.38
COUNTY HOU		----	1141.32	1009.00	132.32	57.34
J-1		0.00	1101.14	1028.00	73.14	31.70
J-10		0.00	1141.32	1020.00	121.32	52.57
J-11		0.00	1153.19	960.00	193.19	83.72
J-12		0.00	1157.69	785.00	372.69	161.50
J-13		0.00	1050.43	950.00	100.43	43.52
J-14		0.00	1055.67	780.00	275.67	119.46
J-15		0.00	1058.53	780.00	278.53	120.70
J-16		0.00	1067.34	915.00	152.34	66.01
J-17		0.00	1070.08	850.00	220.08	95.37
J-18		0.00	1092.54	990.00	102.54	44.43
J-19		0.00	1281.72	1030.00	251.72	109.08
J-2		0.00	1101.57	1000.00	101.57	44.02
J-20		0.00	1280.27	1050.00	230.27	99.78
J-21		0.00	1268.87	1050.00	218.87	94.84
J-22		0.00	1284.09	1005.00	279.09	120.94
J-23		0.00	1206.54	1090.00	116.54	50.50
J-24		0.00	1206.73	1090.00	116.73	50.58
J-25		0.00	1232.73	1060.00	172.73	74.85
J-26		0.00	1251.50	1020.00	231.50	100.32
J-27		0.00	1260.36	1070.00	190.36	82.49
J-28		0.00	1270.05	1050.00	220.05	95.35
J-29		0.00	1153.08	530.00	623.08	270.00
J-3		0.00	1286.22	1025.00	261.22	113.20
J-30		0.00	1157.39	530.00	627.39	271.87
J-31		0.00	1137.77	565.00	572.77	248.20
J-32		0.00	1123.70	900.00	223.70	96.94

J-33	0.00	1126.13	860.00	266.13	115.32
J-34	0.00	1260.04			
J-35	0.00	1103.22	1000.00	103.22	44.73
J-36	250.50 (1.67)	1141.25	1009.00	132.25	57.31
J-37	347.36 (1.67)	1103.21	998.50	104.71	45.37
J-38	547.76 (1.67)	1206.51			
J-39	0.00	1258.26	1070.00	188.26	81.58
J-4	0.00	1292.43	1010.00	282.43	122.39
J-40	0.00	1248.76	1040.00	208.76	90.46
J-41	0.00	1229.84	1070.00	159.84	69.26
J-42	0.00	1211.42	1130.00	81.42	35.28
J-43	0.00	1216.44	1130.00	86.44	37.46
J-5	0.00	1299.70	1040.00	259.70	112.54
J-6	0.00	1302.75	1050.00	252.75	109.52
J-7	0.00	1308.59	1000.00	308.59	133.72
J-8	0.00	1311.15	1021.00	290.15	125.73
J-9	0.00	1319.86	1040.00	279.86	121.27
PERSIMMON	----	1206.53	1115.00	91.53	39.66
I-Pump-1	0.00	1048.73			
O-Pump-2	0.00	1322.38	995.00	327.38	141.86
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1162.19			
I-Pump-2	0.00	1090.13	995.00	95.13	41.22
O-Pump-3	0.00	1157.53	540.00	617.53	267.59

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	271.87	I-Pump-3	4.33
J-29	270.00	J-1	31.70
O-Pump-3	267.59	J-42	35.28

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-36	3.38	P-12	0.28
P-37	3.38	P-43	0.55
P-38	3.38	P-1	0.85

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.57	P-12	0.02
P-26	5.57	P-43	0.09
P-13	3.29	P-1	0.12

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)

P-27	5.57	P-12	0.02
P-26	5.57	P-43	0.09
P-13	3.29	P-1	0.12

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-848.47	
COUNTY HOUS	-145.68	
PERSIMMON	21.07	
R-2	2118.70	

NET SYSTEM INFLOW = 2139.77
 NET SYSTEM OUTFLOW = -994.15
 NET SYSTEM DEMAND = 1145.62

T A N K S T A T U S R E P O R T (time = 21.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	848.47	1103.21	18.21	335618.	53.6	FILLING	20.98
COUNTY HOUS (1)	145.68	1141.32	23.32	342585.	75.2	FILLING	23.92
PERSIMMON (1)	-21.07	1206.53	16.53	179585.	63.6	DRAINING	16.41

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 22.000

C H A N G E S F O R N E X T S I M U L A T I O N (time = 22.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 22.000

TIME FROM INITIATION OF EPS = 22.0000 HOURS (2200 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
--------------------	-----------------------	-------------------	----------------------	-----------------------	-------------------------	---------------------------	------------------------

1083.4	Pump-1	400.78	1050.33	1163.23	112.9	75.00	11.	0.6	5.7	**	**
130.9	Pump-2	529.97	97.73	328.60	230.9	75.00	31.	1.5	32.2	**	**
43.1	Pump-3	2110.23	9.98	619.89	609.9	75.00	325.	16.2	129.2	**	**

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.98	998.50	107.48	46.57
COUNTY HOU		----	1141.92	1009.00	132.92	57.60
J-1		0.00	1103.87	1028.00	75.87	32.88
J-10		0.00	1141.92	1020.00	121.92	52.83
J-11		0.00	1154.04	960.00	194.04	84.09
J-12		0.00	1158.64	785.00	373.64	161.91
J-13		0.00	1052.06	950.00	102.06	44.23
J-14		0.00	1057.42	780.00	277.42	120.21
J-15		0.00	1060.34	780.00	280.34	121.48
J-16		0.00	1069.33	915.00	154.33	66.88
J-17		0.00	1072.14	850.00	222.14	96.26
J-18		0.00	1095.08	990.00	105.08	45.54
J-19		0.00	1282.47	1030.00	252.47	109.40
J-2		0.00	1104.31	1000.00	104.31	45.20
J-20		0.00	1281.01	1050.00	231.01	100.10
J-21		0.00	1269.47	1050.00	219.47	95.10
J-22		0.00	1284.87	1005.00	279.87	121.28
J-23		0.00	1206.42	1090.00	116.42	50.45
J-24		0.00	1206.62	1090.00	116.62	50.53
J-25		0.00	1232.92	1060.00	172.92	74.93
J-26		0.00	1251.90	1020.00	231.90	100.49
J-27		0.00	1260.87	1070.00	190.87	82.71
J-28		0.00	1270.67	1050.00	220.67	95.62
J-29		0.00	1155.48	530.00	625.48	271.04
J-3		0.00	1287.03	1025.00	262.03	113.54
J-30		0.00	1159.75	530.00	629.75	272.89
J-31		0.00	1140.28	565.00	575.28	249.29
J-32		0.00	1126.31	900.00	226.31	98.07
J-33		0.00	1128.73	860.00	268.73	116.45
J-34		0.00	1260.55			
J-35		0.00	1105.98	1000.00	105.98	45.93
J-36		135.00 (0.90)	1141.90	1009.00	132.90	57.59
J-37		187.20 (0.90)	1105.98	998.50	107.48	46.57
J-38		295.20 (0.90)	1206.41			
J-39		0.00	1258.75	1070.00	188.75	81.79
J-4		0.00	1293.31	1010.00	283.31	122.77
J-40		0.00	1249.14	1040.00	209.14	90.63
J-41		0.00	1229.99	1070.00	159.99	69.33
J-42		0.00	1211.36	1130.00	81.36	35.25
J-43		0.00	1216.44	1130.00	86.44	37.46
J-5		0.00	1300.67	1040.00	260.67	112.96
J-6		0.00	1303.74	1050.00	253.74	109.96
J-7		0.00	1309.65	1000.00	309.65	134.18
J-8		0.00	1312.24	1021.00	291.24	126.21
J-9		0.00	1321.06	1040.00	281.06	121.79
PERSIMMON		----	1206.41	1115.00	91.41	39.61
Pump-1		0.00	1050.33			
Pump-2		0.00	1323.60	995.00	328.60	142.39
I-Pump-3		0.00	549.98	540.00	9.98	4.33
R-2		----	550.00			
O-Pump-1		0.00	1163.23			
I-Pump-2		0.00	1092.73	995.00	97.73	42.35

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	272.89	I-Pump-3	4.33
J-29	271.04	J-1	32.88
O-Pump-3	268.62	J-42	35.25

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.38	P-12	0.28
P-27	3.38	P-43	0.30
P-36	3.37	P-1	0.84

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-26	5.64	P-12	0.02
P-27	5.64	P-43	0.03
P-11	3.36	P-1	0.12

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-26	5.64	P-12	0.02
P-27	5.64	P-43	0.03
P-11	3.36	P-1	0.12

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-992.28	
COUNTY HOUS	-265.78	
PERSIMMON	-234.77	
R-2	2110.23	

NET SYSTEM INFLOW = 2110.23
 NET SYSTEM OUTFLOW = -1492.83
 NET SYSTEM DEMAND = 617.40

TANK STATUS REPORT (time = 22.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CL J WILLI (1)	992.28	1105.98	20.98	386526.	61.7	FILLING	24.21
COUNTY HOUS (1)	265.78	1141.92	23.92	351326.	77.2	FILLING	25.00
PERSIMMON (1)	234.77	1206.41	16.41	178321.	63.1	FILLING	17.71

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 23.000

CHANGES FOR NEXT SIMULATION (time = 23.0000 hours)

UNIT COST OF POWER FOR THIS SIMULATION PERIOD = 0.050 \$/kW-Hr

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 23.000

TIME FROM INITIATION OF EPS = 23.0000 HOURS (2300 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1162.79	0.01	0.00	0.82	0.11	0.11
P-10	J-9	J-8	532.16	8.88	0.00	2.17	1.92	1.92
P-11	J-1	J-18	405.30	8.97	0.00	2.59	3.43	3.43
P-12	J-10	COUNTY HOU	405.30	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	405.30	12.38	0.00	2.59	3.43	3.43
P-14	J-12	J-11	405.30	4.69	0.00	2.59	3.43	3.43
P-15	J-13	I-Pump-1	405.30	1.77	0.00	2.59	3.43	3.43
P-16	J-14	J-13	405.30	5.47	0.00	2.59	3.43	3.43
P-17	J-15	J-14	405.30	2.98	0.00	2.59	3.43	3.43
P-18	J-16	J-15	405.30	9.19	0.00	2.59	3.43	3.43
P-19	J-17	J-16	405.30	2.87	0.00	2.59	3.43	3.43
P-2	J-1	J-2	-405.30	0.45	0.00	2.59	3.43	3.43
P-20	J-18	J-17	405.30	23.42	0.00	2.59	3.43	3.43
P-21	J-3	J-22	532.16	2.17	0.00	2.17	1.92	1.92
P-22	J-19	J-20	532.16	1.48	0.00	2.17	1.92	1.92
P-23	J-20	J-21	367.89	11.62	0.00	2.35	2.87	2.87
P-24	J-22	J-19	532.16	2.42	0.00	2.17	1.92	1.92
P-25	J-20	J-28	164.26	10.42	0.00	1.86	2.61	2.61
P-26	J-42	J-24	532.16	4.77	0.00	3.40	5.68	5.68
P-27	J-24	J-23	532.16	0.20	0.00	3.40	5.68	5.68
P-28	J-25	J-42	164.26	21.73	0.00	1.86	2.61	2.61
P-29	J-26	J-25	164.26	19.13	0.00	1.86	2.61	2.61
P-3	J-2	I-Pump-2	532.16	11.67	0.00	2.17	1.92	1.92

P-30	J-27	J-26	164.26	9.03	0.00	1.86	2.61	2.61
P-31	J-28	J-27	164.26	9.87	0.00	1.86	2.61	2.61
P-32	J-21	J-34	367.89	8.99	0.00	2.35	2.87	2.87
P-33	O-Pump-1	J-12	405.30	4.69	0.00	2.59	3.43	3.43
P-34	O-Pump-3	J-30	2100.24	0.13	0.00	1.49	0.34	0.34
P-35	I-Pump-3	R-2	-2100.24	0.02	0.00	1.49	0.34	0.34
P-36	J-30	J-29	2100.24	4.24	0.00	3.35	2.47	2.47
P-37	J-29	J-31	2100.24	15.07	0.00	3.35	2.47	2.47
P-38	J-31	J-33	2100.24	11.45	0.00	3.35	2.47	2.47
P-39	J-33	J-32	2100.24	2.39	0.00	3.35	2.47	2.47
P-4	O-Pump-2	J-9	532.16	2.56	0.00	2.17	1.92	1.92
P-40	J-32	J-35	2100.24	20.15	0.00	3.35	2.47	2.47
P-41	J-35	J-2	937.45	1.70	0.00	1.50	0.55	0.55
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23 PERSIMMON		532.16	0.01	0.00	2.17	1.92	1.92
P-45	J-34	J-39	367.89	1.82	0.00	2.35	2.87	2.87
P-46	J-39	J-40	367.89	9.68	0.00	2.35	2.87	2.87
P-47	J-40	J-41	367.89	19.29	0.00	2.35	2.87	2.87
P-48	J-41	J-43	367.89	13.66	0.00	2.35	2.87	2.87
P-49	J-43	J-42	367.89	5.12	0.00	2.35	2.87	2.87
P-5	J-4	J-3	532.16	6.33	0.00	2.17	1.92	1.92
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	532.16	7.41	0.00	2.17	1.92	1.92
P-7	J-6	J-5	532.16	3.10	0.00	2.17	1.92	1.92
P-8	J-7	J-6	532.16	5.95	0.00	2.17	1.92	1.92
P-9	J-8	J-7	532.16	2.61	0.00	2.17	1.92	1.92

P U M P / L O S S E L E M E N T R E S U L T S

NPS _a		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
Avail.	NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)		(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
1085.5	Pump-1	405.30	1052.40	1164.76	112.4	75.00	12.	0.6	6.3	** **
134.0	Pump-2	532.16	100.85	330.79	229.9	75.00	31.	1.5	33.8	** **
43.1	Pump-3	2100.24	9.98	622.65	612.7	75.00	325.	16.2	145.3	** **

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1109.21	998.50	110.71	47.97
COUNTY HOU		----	1143.00	1009.00	134.00	58.07
J-1		0.00	1107.07	1028.00	79.07	34.26
J-10		0.00	1143.00	1020.00	123.00	53.30
J-11		0.00	1155.38	960.00	195.38	84.67
J-12		0.00	1160.08	785.00	375.08	162.53
J-13		0.00	1054.17	950.00	104.17	45.14
J-14		0.00	1059.64	780.00	279.64	121.18
J-15		0.00	1062.62	780.00	282.62	122.47

J-16	0.00	1071.81	915.00	156.81	67.95
J-17	0.00	1074.67	850.00	224.67	97.36
J-18	0.00	1098.10	990.00	108.10	46.84
J-19	0.00	1284.35	1030.00	254.35	110.22
J-2	0.00	1107.52	1000.00	107.52	46.59
J-20	0.00	1282.87	1050.00	232.87	100.91
J-21	0.00	1271.25	1050.00	221.25	95.88
J-22	0.00	1286.77	1005.00	281.77	122.10
J-23	0.00	1207.72	1090.00	117.72	51.01
J-24	0.00	1207.92	1090.00	117.92	51.10
J-25	0.00	1234.42	1060.00	174.42	75.58
J-26	0.00	1253.55	1020.00	233.55	101.20
J-27	0.00	1262.58	1070.00	192.58	83.45
J-28	0.00	1272.46	1050.00	222.46	96.40
J-29	0.00	1158.28	530.00	628.28	272.25
J-3	0.00	1288.94	1025.00	263.94	114.37
J-30	0.00	1162.51	530.00	632.51	274.09
J-31	0.00	1143.21	565.00	578.21	250.56
J-32	0.00	1129.37	900.00	229.37	99.39
J-33	0.00	1131.76	860.00	271.76	117.76
J-34	0.00	1262.26			
J-35	0.00	1109.21	1000.00	109.21	47.33
J-36	72.00 (0.48)	1143.00	1009.00	134.00	58.07
J-37	99.84 (0.48)	1109.21	998.50	110.71	47.97
J-38	157.44 (0.48)	1207.71			
J-39	0.00	1260.44	1070.00	190.44	82.52
J-4	0.00	1295.27	1010.00	285.27	123.62
J-40	0.00	1250.76	1040.00	210.76	91.33
J-41	0.00	1231.47	1070.00	161.47	69.97
J-42	0.00	1212.69	1130.00	82.69	35.83
J-43	0.00	1217.81	1130.00	87.81	38.05
J-5	0.00	1302.68	1040.00	262.68	113.83
J-6	0.00	1305.78	1050.00	255.78	110.84
J-7	0.00	1311.74	1000.00	311.74	135.09
J-8	0.00	1314.35	1021.00	293.35	127.12
J-9	0.00	1323.23	1040.00	283.23	122.73
PERSIMMON	----	1207.71	1115.00	92.71	40.17
I-Pump-1	0.00	1052.40			
O-Pump-2	0.00	1325.79	995.00	330.79	143.34
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1164.76			
I-Pump-2	0.00	1095.85	995.00	100.85	43.70
O-Pump-3	0.00	1162.65	540.00	622.65	269.81

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	274.09	I-Pump-3	4.33
J-29	272.25	J-1	34.26
O-Pump-3	269.81	J-42	35.83

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.40	P-43	0.16

P-27	3.40	P-12	0.29
P-36	3.35	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-26	5.68	P-43	0.01
P-27	5.68	P-12	0.02
P-11	3.43	P-1	0.11

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-26	5.68	P-43	0.01
P-27	5.68	P-12	0.02
P-11	3.43	P-1	0.11

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1062.95	
COUNTY HOUS	-333.30	
PERSIMMON	-374.72	
R-2	2100.24	

NET SYSTEM INFLOW = 2100.24
 NET SYSTEM OUTFLOW = -1770.96
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 23.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1062.95	1109.21	24.21	446063.	71.2	FILLING	27.67
COUNTY HOUS (1)	333.30	1143.00	25.00	367273.	80.7	FILLING	26.36
PERSIMMON (1)	374.72	1207.71	17.71	192408.	68.1	FILLING	19.78

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 24.000

TIME FROM INITIATION OF EPS = 24.0000 HOURS (2400 HOURS, DAY: 1)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	-1146.04	0.01	0.00	0.81	0.11	0.11
P-10	J-9	J-8	533.71	8.93	0.00	2.18	1.93	1.93
P-11	J-1	J-18	409.68	9.15	0.00	2.61	3.50	3.50
P-12	J-10	COUNTY HOU	409.68	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	409.68	12.63	0.00	2.61	3.50	3.50
P-14	J-12	J-11	409.68	4.79	0.00	2.61	3.50	3.50
P-15	J-13	I-Pump-1	409.68	1.81	0.00	2.61	3.50	3.50
P-16	J-14	J-13	409.68	5.58	0.00	2.61	3.50	3.50
P-17	J-15	J-14	409.68	3.04	0.00	2.61	3.50	3.50
P-18	J-16	J-15	409.68	9.37	0.00	2.61	3.50	3.50
P-19	J-17	J-16	409.68	2.92	0.00	2.61	3.50	3.50
P-2	J-1	J-2	-409.68	0.46	0.00	2.61	3.50	3.50
P-20	J-18	J-17	409.68	23.90	0.00	2.61	3.50	3.50
P-21	J-3	J-22	533.71	2.18	0.00	2.18	1.93	1.93
P-22	J-19	J-20	533.71	1.48	0.00	2.18	1.93	1.93
P-23	J-20	J-21	368.97	11.69	0.00	2.35	2.88	2.88
P-24	J-22	J-19	533.71	2.43	0.00	2.18	1.93	1.93
P-25	J-20	J-28	164.75	10.48	0.00	1.87	2.63	2.63
P-26	J-42	J-24	533.72	4.80	0.00	3.41	5.71	5.71
P-27	J-24	J-23	533.72	0.20	0.00	3.41	5.71	5.71
P-28	J-25	J-42	164.75	21.85	0.00	1.87	2.63	2.63
P-29	J-26	J-25	164.75	19.23	0.00	1.87	2.63	2.63
P-3	J-2	I-Pump-2	533.71	11.73	0.00	2.18	1.93	1.93
P-30	J-27	J-26	164.75	9.08	0.00	1.87	2.63	2.63
P-31	J-28	J-27	164.75	9.93	0.00	1.87	2.63	2.63
P-32	J-21	J-34	368.97	9.04	0.00	2.35	2.88	2.88
P-33	O-Pump-1	J-12	409.68	4.78	0.00	2.61	3.50	3.50
P-34	O-Pump-3	J-30	2089.43	0.13	0.00	1.48	0.34	0.34
P-35	I-Pump-3	R-2	-2089.43	0.02	0.00	1.48	0.34	0.34
P-36	J-30	J-29	2089.43	4.20	0.00	3.33	2.45	2.45
P-37	J-29	J-31	2089.43	14.92	0.00	3.33	2.45	2.45
P-38	J-31	J-33	2089.43	11.34	0.00	3.33	2.45	2.45
P-39	J-33	J-32	2089.43	2.37	0.00	3.33	2.45	2.45
P-4	O-Pump-2	J-9	533.71	2.58	0.00	2.18	1.93	1.93
P-40	J-32	J-35	2089.43	19.96	0.00	3.33	2.45	2.45
P-41	J-35	J-2	943.39	1.72	0.00	1.51	0.56	0.56
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	533.72	0.01	0.00	2.18	1.93	1.93
P-45	J-34	J-39	368.97	1.83	0.00	2.35	2.88	2.88
P-46	J-39	J-40	368.97	9.74	0.00	2.35	2.88	2.88
P-47	J-40	J-41	368.97	19.39	0.00	2.35	2.88	2.88
P-48	J-41	J-43	368.97	13.73	0.00	2.35	2.88	2.88
P-49	J-43	J-42	368.97	5.15	0.00	2.35	2.88	2.88
P-5	J-4	J-3	533.71	6.37	0.00	2.18	1.93	1.93
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	533.71	7.45	0.00	2.18	1.93	1.93
P-7	J-6	J-5	533.71	3.12	0.00	2.18	1.93	1.93
P-8	J-7	J-6	533.71	5.99	0.00	2.18	1.93	1.93
P-9	J-8	J-7	533.71	2.63	0.00	2.18	1.93	1.93

P U M P / L O S S E L E M E N T R E S U L T S

PSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREMENTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
-----	------	----------	---------------	----------------	--------------	----------------	-----------------	--------------------	---------------	--------------------	------------------

Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)										
Pump-1	409.68	1054.73	1166.56	111.8	75.00	12.	0.6	6.9	**	**
Pump-2	533.71	104.23	333.50	229.3	75.00	31.	1.5	35.3	**	**
Pump-3	2089.43	9.98	625.60	615.6	75.00	325.	16.2	161.5	**	**

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1112.67	998.50	114.17	49.47
COUNTY HOU		----	1144.36	1009.00	135.36	58.66
J-1		0.00	1110.50	1028.00	82.50	35.75
J-10		0.00	1144.37	1020.00	124.37	53.89
J-11		0.00	1156.99	960.00	196.99	85.36
J-12		0.00	1161.78	785.00	376.78	163.27
J-13		0.00	1056.54	950.00	106.54	46.17
J-14		0.00	1062.12	780.00	282.12	122.25
J-15		0.00	1065.16	780.00	285.16	123.57
J-16		0.00	1074.53	915.00	159.53	69.13
J-17		0.00	1077.46	850.00	227.46	98.56
J-18		0.00	1101.35	990.00	111.35	48.25
J-19		0.00	1286.84	1030.00	256.84	111.30
J-2		0.00	1110.96	1000.00	110.96	48.08
J-20		0.00	1285.35	1050.00	235.35	101.99
J-21		0.00	1273.66	1050.00	223.66	96.92
J-22		0.00	1289.27	1005.00	284.27	123.18
J-23		0.00	1209.79	1090.00	119.79	51.91
J-24		0.00	1209.99	1090.00	119.99	51.99
J-25		0.00	1236.63	1060.00	176.63	76.54
J-26		0.00	1255.86	1020.00	235.86	102.21
J-27		0.00	1264.95	1070.00	194.95	84.48
J-28		0.00	1274.88	1050.00	224.88	97.45
J-29		0.00	1161.27	530.00	631.27	273.55
J-3		0.00	1291.45	1025.00	266.45	115.46
J-30		0.00	1165.47	530.00	635.47	275.37
J-31		0.00	1146.35	565.00	581.35	251.92
J-32		0.00	1132.64	900.00	232.64	100.81
J-33		0.00	1135.01	860.00	275.01	119.17
J-34		0.00	1264.62			
J-35		0.00	1112.68	1000.00	112.68	48.83
J-36		72.00 (0.48)	1144.36	1009.00	135.36	58.66
J-37		99.84 (0.48)	1112.67	998.50	114.17	49.47
J-38		157.44 (0.48)	1209.78			
J-39		0.00	1262.80	1070.00	192.80	83.55
J-4		0.00	1297.82	1010.00	287.82	124.72
J-40		0.00	1253.06	1040.00	213.06	92.33
J-41		0.00	1233.67	1070.00	163.67	70.92
J-42		0.00	1214.79	1130.00	84.79	36.74
J-43		0.00	1219.93	1130.00	89.93	38.97
J-5		0.00	1305.27	1040.00	265.27	114.95
J-6		0.00	1308.39	1050.00	258.39	111.97
J-7		0.00	1314.37	1000.00	314.37	136.23
J-8		0.00	1317.00	1021.00	296.00	128.27
J-9		0.00	1325.93	1040.00	285.93	123.90
PERSIMMON		----	1209.78	1115.00	94.78	41.07

I-Pump-1	0.00	1054.73			
O-Pump-2	0.00	1328.50	995.00	333.50	144.52
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1166.56			
I-Pump-2	0.00	1099.23	995.00	104.23	45.17
Pump-3	0.00	1165.60	540.00	625.60	271.09

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	275.37	I-Pump-3	4.33
J-29	273.55	J-1	35.75
O-Pump-3	271.09	J-42	36.74

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.41	P-43	0.16
P-27	3.41	P-12	0.29
P-36	3.33	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.71	P-43	0.01
P-26	5.71	P-12	0.02
P-13	3.50	P-1	0.11

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.71	P-43	0.01
P-26	5.71	P-12	0.02
P-13	3.50	P-1	0.11

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1046.20	
COUNTY HOUS	-337.68	
PERSIMMON	-376.28	
R-2	2089.43	

NET SYSTEM INFLOW = 2089.43
 NET SYSTEM OUTFLOW = -1760.15
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 24.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1046.20	1112.67	27.67	509840.	81.4	FILLING	31.08
COUNTY HOUS (1)	337.68	1144.36	26.36	387271.	85.0	FILLING	27.74
PERSIMMON (1)	376.28	1209.78	19.78	214890.	76.1	FILLING	21.86

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 25.000

TIME FROM INITIATION OF EPS = 25.0000 HOURS (100 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1129.61	0.01	0.00	0.80	0.11	0.11
P-10	J-9	J-8	535.20	8.98	0.00	2.19	1.94	1.94
P-11	J-1	J-18	413.87	9.33	0.00	2.64	3.57	3.57
P-12	J-10	COUNTY HOU	413.87	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	413.87	12.87	0.00	2.64	3.57	3.57
P-14	J-12	J-11	413.87	4.88	0.00	2.64	3.57	3.57
P-15	J-13	I-Pump-1	413.87	1.84	0.00	2.64	3.57	3.57
P-16	J-14	J-13	413.87	5.68	0.00	2.64	3.57	3.57
P-17	J-15	J-14	413.87	3.10	0.00	2.64	3.57	3.57
P-18	J-16	J-15	413.87	9.55	0.00	2.64	3.57	3.57
P-19	J-17	J-16	413.87	2.98	0.00	2.64	3.57	3.57
P-2	J-1	J-2	-413.87	0.47	0.00	2.64	3.57	3.57
P-20	J-18	J-17	413.87	24.35	0.00	2.64	3.57	3.57
P-21	J-3	J-22	535.20	2.19	0.00	2.19	1.94	1.94
P-22	J-19	J-20	535.20	1.49	0.00	2.19	1.94	1.94
P-23	J-20	J-21	369.99	11.75	0.00	2.36	2.90	2.90
P-24	J-22	J-19	535.20	2.44	0.00	2.19	1.94	1.94
P-25	J-20	J-28	165.20	10.53	0.00	1.87	2.64	2.64
P-26	J-42	J-24	535.19	4.82	0.00	3.42	5.74	5.74
P-27	J-24	J-23	535.19	0.20	0.00	3.42	5.74	5.74
P-28	J-25	J-42	165.20	21.96	0.00	1.87	2.64	2.64
P-29	J-26	J-25	165.20	19.33	0.00	1.87	2.64	2.64
P-3	J-2	I-Pump-2	535.20	11.79	0.00	2.19	1.94	1.94
P-30	J-27	J-26	165.20	9.13	0.00	1.87	2.64	2.64
P-31	J-28	J-27	165.20	9.98	0.00	1.87	2.64	2.64
P-32	J-21	J-34	369.99	9.09	0.00	2.36	2.90	2.90
P-33	O-Pump-1	J-12	413.87	4.87	0.00	2.64	3.57	3.57
P-34	O-Pump-3	J-30	2078.68	0.13	0.00	1.47	0.34	0.34
P-35	I-Pump-3	R-2	-2078.68	0.02	0.00	1.47	0.34	0.34
P-36	J-30	J-29	2078.68	4.16	0.00	3.32	2.42	2.42

P-37	J-29	J-31	2078.68	14.78	0.00	3.32	2.42	2.42
P-38	J-31	J-33	2078.68	11.23	0.00	3.32	2.42	2.42
P-39	J-33	J-32	2078.68	2.35	0.00	3.32	2.42	2.42
P-4	O-Pump-2	J-9	535.20	2.59	0.00	2.19	1.94	1.94
P-40	J-32	J-35	2078.68	19.77	0.00	3.32	2.42	2.42
P-41	J-35	J-2	949.07	1.73	0.00	1.51	0.57	0.57
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	535.19	0.01	0.00	2.19	1.94	1.94
P-45	J-34	J-39	369.99	1.83	0.00	2.36	2.90	2.90
P-46	J-39	J-40	369.99	9.79	0.00	2.36	2.90	2.90
P-47	J-40	J-41	369.99	19.49	0.00	2.36	2.90	2.90
P-48	J-41	J-43	369.99	13.80	0.00	2.36	2.90	2.90
P-49	J-43	J-42	369.99	5.17	0.00	2.36	2.90	2.90
P-5	J-4	J-3	535.20	6.40	0.00	2.19	1.94	1.94
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	535.20	7.49	0.00	2.19	1.94	1.94
P-7	J-6	J-5	535.20	3.13	0.00	2.19	1.94	1.94
P-8	J-7	J-6	535.20	6.02	0.00	2.19	1.94	1.94
P-9	J-8	J-7	535.20	2.64	0.00	2.19	1.94	1.94

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMENTAL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											
1090.1	Pump-1	413.87	1057.05	1168.37	111.3	75.00	12.	0.6	7.5	**	**
140.7	Pump-2	535.20	107.56	336.19	228.6	75.00	31.	1.5	36.8	**	**
43.1	Pump-3	2078.68	9.98	628.50	618.5	75.00	325.	16.1	177.7	**	**

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1116.08	998.50	117.58	50.95
COUNTY HOU		----	1145.74	1009.00	136.74	59.26
J-1		0.00	1113.88	1028.00	85.88	37.22
J-10		0.00	1145.74	1020.00	125.74	54.49
J-11		0.00	1158.61	960.00	198.61	86.07
J-12		0.00	1163.49	785.00	378.49	164.01
J-13		0.00	1058.89	950.00	108.89	47.19
J-14		0.00	1064.58	780.00	284.58	123.32
J-15		0.00	1067.68	780.00	287.68	124.66
J-16		0.00	1077.23	915.00	162.23	70.30
J-17		0.00	1080.20	850.00	230.20	99.76
J-18		0.00	1104.56	990.00	114.56	49.64
J-19		0.00	1289.31	1030.00	259.31	112.37
J-2		0.00	1114.35	1000.00	114.35	49.55
J-20		0.00	1287.82	1050.00	237.82	103.05
J-21		0.00	1276.07	1050.00	226.07	97.96

J-22	0.00	1291.75	1005.00	286.75	124.26
J-23	0.00	1211.87	1090.00	121.87	52.81
J-24	0.00	1212.07	1090.00	122.07	52.90
J-25	0.00	1238.85	1060.00	178.85	77.50
J-26	0.00	1258.18	1020.00	238.18	103.21
J-27	0.00	1267.31	1070.00	197.31	85.50
J-28	0.00	1277.29	1050.00	227.29	98.49
J-29	0.00	1164.22	530.00	634.22	274.83
J-3	0.00	1293.95	1025.00	268.95	116.54
J-30	0.00	1168.37	530.00	638.37	276.63
J-31	0.00	1149.43	565.00	584.43	253.26
J-32	0.00	1135.85	900.00	235.85	102.20
J-33	0.00	1138.20	860.00	278.20	120.55
J-34	0.00	1266.98			
J-35	0.00	1116.08	1000.00	116.08	50.30
J-36	72.00 (0.48)	1145.74	1009.00	136.74	59.25
J-37	99.84 (0.48)	1116.08	998.50	117.58	50.95
J-38	157.44 (0.48)	1211.86			
J-39	0.00	1265.15	1070.00	195.15	84.56
J-4	0.00	1300.35	1010.00	290.35	125.82
J-40	0.00	1255.36	1040.00	215.36	93.32
J-41	0.00	1235.87	1070.00	165.87	71.88
J-42	0.00	1216.89	1130.00	86.89	37.65
J-43	0.00	1222.06	1130.00	92.06	39.89
J-5	0.00	1307.84	1040.00	267.84	116.06
J-6	0.00	1310.97	1050.00	260.97	113.09
J-7	0.00	1316.99	1000.00	316.99	137.36
J-8	0.00	1319.63	1021.00	298.63	129.41
J-9	0.00	1328.60	1040.00	288.60	125.06
PERSIMMON	----	1211.86	1115.00	96.86	41.97
I-Pump-1	0.00	1057.05			
O-Pump-2	0.00	1331.19	995.00	336.19	145.68
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
Pump-1	0.00	1168.37			
I-Pump-2	0.00	1102.56	995.00	107.56	46.61
O-Pump-3	0.00	1168.50	540.00	628.50	272.35

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	276.63	I-Pump-3	4.33
J-29	274.83	J-1	37.22
O-Pump-3	272.35	J-42	37.65

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.42	P-43	0.16
P-27	3.42	P-12	0.29
P-36	3.32	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000	PIPE NUMBER	MINIMUM HL+ML/1000
-------------	--------------------	-------------	--------------------

	(ft/ft)		(ft/ft)
P-27	5.74	P-43	0.01
P-26	5.74	P-12	0.02
P-18	3.57	P-1	0.11

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.74	P-43	0.01
P-26	5.74	P-12	0.02
P-18	3.57	P-1	0.11

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1029.77	
COUNTY HOUS	-341.87	
PERSIMMON	-377.75	
R-2	2078.68	

NET SYSTEM INFLOW = 2078.68
NET SYSTEM OUTFLOW = -1749.40
NET SYSTEM DEMAND = 329.28

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-3	CLOSED	J-35	1116.08	1104.00

Time: 25.000

TIME FROM INITIATION OF EPS = 25.0000 HOURS (100 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	949.04	0.00	0.00	0.67	0.08	0.08
P-10	J-9	J-8	535.18	8.98	0.00	2.19	1.94	1.94
P-11	J-1	J-18	413.85	9.33	0.00	2.64	3.57	3.57
P-12	J-10	COUNTY HOU	413.85	0.00	0.00	0.29	0.02	0.02

P-13	J-11	J-10	413.85	12.87	0.00	2.64	3.57	3.57
P-14	J-12	J-11	413.85	4.88	0.00	2.64	3.57	3.57
P-15	J-13	I-Pump-1	413.85	1.84	0.00	2.64	3.57	3.57
P-16	J-14	J-13	413.85	5.68	0.00	2.64	3.57	3.57
P-17	J-15	J-14	413.85	3.10	0.00	2.64	3.57	3.57
P-18	J-16	J-15	413.85	9.55	0.00	2.64	3.57	3.57
P-19	J-17	J-16	413.85	2.98	0.00	2.64	3.57	3.57
P-2	J-1	J-2	-413.85	0.47	0.00	2.64	3.57	3.57
P-20	J-18	J-17	413.85	24.35	0.00	2.64	3.57	3.57
P-21	J-3	J-22	535.18	2.19	0.00	2.19	1.94	1.94
P-22	J-19	J-20	535.18	1.49	0.00	2.19	1.94	1.94
P-23	J-20	J-21	369.99	11.75	0.00	2.36	2.90	2.90
P-24	J-22	J-19	535.18	2.44	0.00	2.19	1.94	1.94
P-25	J-20	J-28	165.20	10.53	0.00	1.87	2.64	2.64
P-26	J-42	J-24	535.18	4.82	0.00	3.42	5.74	5.74
P-27	J-24	J-23	535.18	0.20	0.00	3.42	5.74	5.74
P-28	J-25	J-42	165.20	21.96	0.00	1.87	2.64	2.64
P-29	J-26	J-25	165.20	19.33	0.00	1.87	2.64	2.64
P-3	J-2	I-Pump-2	535.18	11.79	0.00	2.19	1.94	1.94
P-30	J-27	J-26	165.20	9.13	0.00	1.87	2.64	2.64
P-31	J-28	J-27	165.20	9.98	0.00	1.87	2.64	2.64
P-32	J-21	J-34	369.99	9.09	0.00	2.36	2.90	2.90
P-33	O-Pump-1	J-12	413.85	4.87	0.00	2.64	3.57	3.57
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	535.18	2.59	0.00	2.19	1.94	1.94
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	949.04	1.73	0.00	1.51	0.57	0.57
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	535.18	0.01	0.00	2.19	1.94	1.94
P-45	J-34	J-39	369.99	1.83	0.00	2.36	2.90	2.90
P-46	J-39	J-40	369.99	9.79	0.00	2.36	2.90	2.90
P-47	J-40	J-41	369.99	19.49	0.00	2.36	2.90	2.90
P-48	J-41	J-43	369.99	13.80	0.00	2.36	2.90	2.90
P-49	J-43	J-42	369.99	5.17	0.00	2.36	2.90	2.90
P-5	J-4	J-3	535.18	6.40	0.00	2.19	1.94	1.94
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	535.18	7.49	0.00	2.19	1.94	1.94
P-7	J-6	J-5	535.18	3.13	0.00	2.19	1.94	1.94
P-8	J-7	J-6	535.18	6.02	0.00	2.19	1.94	1.94
P-9	J-8	J-7	535.18	2.64	0.00	2.19	1.94	1.94

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES	
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)			
Pump-1	413.85	1057.05	1168.36	111.3	75.00	12.	0.6	8.0	**	**
Pump-2	535.18	107.55	336.19	228.6	75.00	31.	1.5	38.4	**	**

Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1116.08	998.50	117.58	50.95
COUNTY HOU		----	1145.74	1009.00	136.74	59.26
J-1		0.00	1113.87	1028.00	85.87	37.21
J-10		0.00	1145.74	1020.00	125.74	54.49
J-11		0.00	1158.61	960.00	198.61	86.07
J-12		0.00	1163.49	785.00	378.49	164.01
J-13		0.00	1058.89	950.00	108.89	47.18
J-14		0.00	1064.57	780.00	284.57	123.31
J-15		0.00	1067.67	780.00	287.67	124.66
J-16		0.00	1077.22	915.00	162.22	70.30
J-17		0.00	1080.20	850.00	230.20	99.75
J-18		0.00	1104.55	990.00	114.55	49.64
J-19		0.00	1289.31	1030.00	259.31	112.37
J-2		0.00	1114.34	1000.00	114.34	49.55
J-20		0.00	1287.82	1050.00	237.82	103.05
J-21		0.00	1276.07	1050.00	226.07	97.96
J-22		0.00	1291.75	1005.00	286.75	124.26
J-23		0.00	1211.87	1090.00	121.87	52.81
J-24		0.00	1212.07	1090.00	122.07	52.90
J-25		0.00	1238.85	1060.00	178.85	77.50
J-26		0.00	1258.18	1020.00	238.18	103.21
J-27		0.00	1267.31	1070.00	197.31	85.50
J-28		0.00	1277.29	1050.00	227.29	98.49
J-29		0.00	1116.07	530.00	586.07	253.96
J-3		0.00	1293.94	1025.00	268.94	116.54
J-30		0.00	1116.07	530.00	586.07	253.96
J-31		0.00	1116.07	565.00	551.07	238.80
J-32		0.00	1116.07	900.00	216.07	93.63
J-33		0.00	1116.07	860.00	256.07	110.96
J-34		0.00	1266.98			
J-35		0.00	1116.07	1000.00	116.07	50.30
J-36		72.00 (0.48)	1145.74	1009.00	136.74	59.25
J-37		99.84 (0.48)	1116.08	998.50	117.58	50.95
J-38		157.44 (0.48)	1211.86			
J-39		0.00	1265.15	1070.00	195.15	84.56
J-4		0.00	1300.34	1010.00	290.34	125.82
J-40		0.00	1255.36	1040.00	215.36	93.32
J-41		0.00	1235.87	1070.00	165.87	71.88
J-42		0.00	1216.89	1130.00	86.89	37.65
J-43		0.00	1222.06	1130.00	92.06	39.89
J-5		0.00	1307.83	1040.00	267.83	116.06
J-6		0.00	1310.97	1050.00	260.97	113.09
J-7		0.00	1316.98	1000.00	316.98	137.36
J-8		0.00	1319.62	1021.00	298.62	129.40
J-9		0.00	1328.60	1040.00	288.60	125.06
PERSIMMON		----	1211.86	1115.00	96.86	41.97
I-Pump-1		0.00	1057.05			
O-Pump-2		0.00	1331.19	995.00	336.19	145.68
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1168.36			
I-Pump-2		0.00	1102.55	995.00	107.55	46.61
Pump-3		0.00	1116.07	540.00	576.07	249.63

MAXIMUM AND MINIMUM VALUES

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.96	I-Pump-3	4.33
J-30	253.96	J-1	37.21
O-Pump-3	249.63	J-42	37.65

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.42	P-43	0.16
P-27	3.42	P-12	0.29
P-11	2.64	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.74	P-43	0.01
P-26	5.74	P-12	0.02
P-11	3.57	P-1	0.08

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.74	P-43	0.01
P-26	5.74	P-12	0.02
P-11	3.57	P-1	0.08

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1048.88	
COUNTY HOUS	-341.85	
PERSIMMON	-377.74	
R-2	0.00	

NET SYSTEM INFLOW = 1048.88
 NET SYSTEM OUTFLOW = -719.60
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 25.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
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CLOYD WILLI (1)	-1048.88	1116.08	31.08	572612.	91.4	DRAINING	27.66
COUNTY HOUS (1)	341.85	1145.74	27.74	407531.	89.5	FILLING	29.14
PERSIMMON (1)	377.74	1211.86	21.86	237467.	84.1	FILLING	23.94

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 26.000

TIME FROM INITIATION OF EPS = 26.0000 HOURS (200 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	932.84	0.00	0.00	0.66	0.08	0.08
P-10	J-9	J-8	528.98	8.78	0.00	2.16	1.89	1.89
P-11	J-1	J-18	403.86	8.91	0.00	2.58	3.41	3.41
P-12	J-10	COUNTY HOU	403.86	0.00	0.00	0.29	0.02	0.02
P-13	J-11	J-10	403.86	12.30	0.00	2.58	3.41	3.41
P-14	J-12	J-11	403.86	4.66	0.00	2.58	3.41	3.41
P-15	J-13	I-Pump-1	403.86	1.76	0.00	2.58	3.41	3.41
P-16	J-14	J-13	403.86	5.43	0.00	2.58	3.41	3.41
P-17	J-15	J-14	403.86	2.96	0.00	2.58	3.41	3.41
P-18	J-16	J-15	403.86	9.13	0.00	2.58	3.41	3.41
P-19	J-17	J-16	403.86	2.85	0.00	2.58	3.41	3.41
P-2	J-1	J-2	-403.86	0.45	0.00	2.58	3.41	3.41
P-20	J-18	J-17	403.86	23.27	0.00	2.58	3.41	3.41
P-21	J-3	J-22	528.98	2.15	0.00	2.16	1.89	1.89
P-22	J-19	J-20	528.98	1.46	0.00	2.16	1.89	1.89
P-23	J-20	J-21	365.70	11.50	0.00	2.33	2.84	2.84
P-24	J-22	J-19	528.98	2.39	0.00	2.16	1.89	1.89
P-25	J-20	J-28	163.28	10.30	0.00	1.85	2.59	2.59
P-26	J-42	J-24	528.98	4.72	0.00	3.38	5.62	5.62
P-27	J-24	J-23	528.98	0.20	0.00	3.38	5.62	5.62
P-28	J-25	J-42	163.28	21.49	0.00	1.85	2.59	2.59
P-29	J-26	J-25	163.28	18.92	0.00	1.85	2.59	2.59
P-3	J-2	I-Pump-2	528.98	11.54	0.00	2.16	1.89	1.89
P-30	J-27	J-26	163.28	8.93	0.00	1.85	2.59	2.59
P-31	J-28	J-27	163.28	9.77	0.00	1.85	2.59	2.59
P-32	J-21	J-34	365.70	8.89	0.00	2.33	2.84	2.84
P-33	O-Pump-1	J-12	403.86	4.66	0.00	2.58	3.41	3.41
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	528.98	2.53	0.00	2.16	1.89	1.89
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	932.84	1.68	0.00	1.49	0.55	0.55
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	528.98	0.01	0.00	2.16	1.89	1.89
P-45	J-34	J-39	365.70	1.80	0.00	2.33	2.84	2.84
P-46	J-39	J-40	365.70	9.58	0.00	2.33	2.84	2.84
P-47	J-40	J-41	365.70	19.08	0.00	2.33	2.84	2.84

P-48	J-41	J-43	365.70	13.51	0.00	2.33	2.84	2.84
P-49	J-43	J-42	365.70	5.06	0.00	2.33	2.84	2.84
P-5	J-4	J-3	528.98	6.26	0.00	2.16	1.89	1.89
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	528.98	7.33	0.00	2.16	1.89	1.89
P-7	J-6	J-5	528.98	3.07	0.00	2.16	1.89	1.89
P-8	J-7	J-6	528.98	5.89	0.00	2.16	1.89	1.89
P-9	J-8	J-7	528.98	2.58	0.00	2.16	1.89	1.89

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

1089.3	Pump-1	403.86	1056.22	1168.76	112.5	75.00	11.	0.6	8.6	**	**
137.6	Pump-2	528.98	104.44	335.73	231.3	75.00	31.	1.5	39.9	**	**

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1112.66	998.50	114.16	49.47
COUNTY HOU		----	1147.14	1009.00	138.14	59.86
J-1		0.00	1110.53	1028.00	82.53	35.76
J-10		0.00	1147.14	1020.00	127.14	55.09
J-11		0.00	1159.44	960.00	199.44	86.42
J-12		0.00	1164.10	785.00	379.10	164.28
J-13		0.00	1057.98	950.00	107.98	46.79
J-14		0.00	1063.41	780.00	283.41	122.81
J-15		0.00	1066.38	780.00	286.38	124.10
J-16		0.00	1075.50	915.00	160.50	69.55
J-17		0.00	1078.35	850.00	228.35	98.95
J-18		0.00	1101.62	990.00	111.62	48.37
J-19		0.00	1289.74	1030.00	259.74	112.55
J-2		0.00	1110.98	1000.00	110.98	48.09
J-20		0.00	1288.28	1050.00	238.28	103.25
J-21		0.00	1276.78	1050.00	226.78	98.27
J-22		0.00	1292.13	1005.00	287.13	124.42
J-23		0.00	1213.95	1090.00	123.95	53.71
J-24		0.00	1214.15	1090.00	124.15	53.80
J-25		0.00	1240.36	1060.00	180.36	78.15
J-26		0.00	1259.28	1020.00	239.28	103.69
J-27		0.00	1268.21	1070.00	198.21	85.89
J-28		0.00	1277.98	1050.00	227.98	98.79
J-29		0.00	1112.66	530.00	582.66	252.48
J-3		0.00	1294.28	1025.00	269.28	116.69
J-30		0.00	1112.66	530.00	582.66	252.48
J-31		0.00	1112.66	565.00	547.66	237.32
J-32		0.00	1112.66	900.00	212.66	92.15
J-33		0.00	1112.66	860.00	252.66	109.48

J-34	0.00	1267.89			
J-35	0.00	1112.66	1000.00	112.66	48.82
J-36	72.00 (0.48)	1147.13	1009.00	138.13	59.86
J-37	99.84 (0.48)	1112.66	998.50	114.16	49.47
J-38	157.44 (0.48)	1213.94			
J-39	0.00	1266.09	1070.00	196.09	84.97
J-4	0.00	1300.54	1010.00	290.54	125.90
J-40	0.00	1256.52	1040.00	216.52	93.82
J-41	0.00	1237.44	1070.00	167.44	72.56
J-42	0.00	1218.87	1130.00	88.87	38.51
J-43	0.00	1223.93	1130.00	93.93	40.70
J-5	0.00	1307.87	1040.00	267.87	116.08
J-6	0.00	1310.94	1050.00	260.94	113.07
J-7	0.00	1316.83	1000.00	316.83	137.29
J-8	0.00	1319.41	1021.00	298.41	129.31
J-9	0.00	1328.19	1040.00	288.19	124.88
PERSIMMON	----	1213.94	1115.00	98.94	42.88
I-Pump-1	0.00	1056.22			
O-Pump-2	0.00	1330.73	995.00	335.73	145.48
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1168.76			
I-Pump-2	0.00	1099.44	995.00	104.44	45.26
O-Pump-3	0.00	1112.66	540.00	572.66	248.15

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	252.48	I-Pump-3	4.33
J-30	252.48	J-1	35.76
O-Pump-3	248.15	J-42	38.51

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.38	P-43	0.16
P-27	3.38	P-12	0.29
P-11	2.58	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.62	P-43	0.01
P-26	5.62	P-12	0.02
P-11	3.41	P-1	0.08

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.62	P-43	0.01

P-26	5.62	P-12	0.02
P-11	3.41	P-1	0.08

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+, INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1032.68	
COUNTY HOUS	-331.86	
PERSIMMON	-371.54	
R-2	0.00	

NET SYSTEM INFLOW = 1032.68
 NET SYSTEM OUTFLOW = -703.40
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 26.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-1032.68	1112.66	27.66	509680.	81.4	DRAINING	24.30
COUNTY HOUS (1)	331.86	1147.14	29.14	428042.	94.0	FILLING	30.50
PERSIMMON (1)	371.54	1213.94	23.94	260132.	92.1	FILLING	26.00

TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 27.000

TIME FROM INITIATION OF EPS = 27.0000 HOURS (300 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL J-35	916.62	0.00	0.00	0.65	0.07	0.07
P-10	J-9 J-8	522.77	8.59	0.00	2.14	1.85	1.85
P-11	J-1 J-18	393.85	8.51	0.00	2.51	3.25	3.25
P-12	J-10COUNTY HOU	393.85	0.00	0.00	0.28	0.02	0.02
P-13	J-11 J-10	393.85	11.74	0.00	2.51	3.25	3.25
P-14	J-12 J-11	393.85	4.45	0.00	2.51	3.25	3.25
P-15	J-13 I-Pump-1	393.85	1.68	0.00	2.51	3.25	3.25
P-16	J-14 J-13	393.85	5.19	0.00	2.51	3.25	3.25
P-17	J-15 J-14	393.85	2.83	0.00	2.51	3.25	3.25
P-18	J-16 J-15	393.85	8.71	0.00	2.51	3.25	3.25
P-19	J-17 J-16	393.85	2.72	0.00	2.51	3.25	3.25
P-2	J-1 J-2	-393.85	0.43	0.00	2.51	3.25	3.25
P-20	J-18 J-17	393.85	22.21	0.00	2.51	3.25	3.25

P-21	J-3	J-22	522.77	2.10	0.00	2.14	1.85	1.85
P-22	J-19	J-20	522.77	1.43	0.00	2.14	1.85	1.85
P-23	J-20	J-21	361.40	11.25	0.00	2.31	2.77	2.77
P-24	J-22	J-19	522.77	2.34	0.00	2.14	1.85	1.85
P-25	J-20	J-28	161.37	10.08	0.00	1.83	2.53	2.53
P-26	J-42	J-24	522.77	4.62	0.00	3.34	5.50	5.50
P-27	J-24	J-23	522.77	0.19	0.00	3.34	5.50	5.50
P-28	J-25	J-42	161.37	21.02	0.00	1.83	2.53	2.53
P-29	J-26	J-25	161.37	18.51	0.00	1.83	2.53	2.53
P-3	J-2	I-Pump-2	522.77	11.29	0.00	2.14	1.85	1.85
P-30	J-27	J-26	161.37	8.74	0.00	1.83	2.53	2.53
P-31	J-28	J-27	161.37	9.55	0.00	1.83	2.53	2.53
P-32	J-21	J-34	361.40	8.70	0.00	2.31	2.77	2.77
P-33	O-Pump-1	J-12	393.85	4.45	0.00	2.51	3.25	3.25
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	522.77	2.48	0.00	2.14	1.85	1.85
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	916.62	1.63	0.00	1.46	0.53	0.53
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	522.77	0.01	0.00	2.14	1.85	1.85
P-45	J-34	J-39	361.40	1.76	0.00	2.31	2.77	2.77
P-46	J-39	J-40	361.40	9.37	0.00	2.31	2.77	2.77
P-47	J-40	J-41	361.40	18.66	0.00	2.31	2.77	2.77
P-48	J-41	J-43	361.40	13.22	0.00	2.31	2.77	2.77
P-49	J-43	J-42	361.40	4.95	0.00	2.31	2.77	2.77
P-5	J-4	J-3	522.77	6.13	0.00	2.14	1.85	1.85
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	522.77	7.17	0.00	2.14	1.85	1.85
P-7	J-6	J-5	522.77	3.00	0.00	2.14	1.85	1.85
P-8	J-7	J-6	522.77	5.76	0.00	2.14	1.85	1.85
P-9	J-8	J-7	522.77	2.53	0.00	2.14	1.85	1.85

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

1088.5	Pump-1	393.85	1055.40	1169.13	113.7	75.00	11.	0.6	9.2	**	**
134.5	Pump-2	522.77	101.38	335.25	233.9	75.00	31.	1.5	41.5	**	**

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)

CLOYD WILL	----	1109.30	998.50	110.80	48.01
COUNTY HOU	----	1148.50	1009.00	139.50	60.45
J-1	0.00	1107.24	1028.00	79.24	34.34
J-10	0.00	1148.50	1020.00	128.50	55.68
J-11	0.00	1160.24	960.00	200.24	86.77
J-12	0.00	1164.69	785.00	379.69	164.53
J-13	0.00	1057.08	950.00	107.08	46.40
J-14	0.00	1062.27	780.00	282.27	122.32
J-15	0.00	1065.09	780.00	285.09	123.54
J-16	0.00	1073.80	915.00	158.80	68.82
J-17	0.00	1076.52	850.00	226.52	98.16
J-18	0.00	1098.74	990.00	108.74	47.12
J-19	0.00	1290.15	1030.00	260.15	112.73
J-2	0.00	1107.67	1000.00	107.67	46.66
J-20	0.00	1288.72	1050.00	238.72	103.45
J-21	0.00	1277.48	1050.00	227.48	98.57
J-22	0.00	1292.49	1005.00	287.49	124.58
J-23	0.00	1216.00	1090.00	126.00	54.60
J-24	0.00	1216.20	1090.00	126.20	54.69
J-25	0.00	1241.84	1060.00	181.84	78.80
J-26	0.00	1260.35	1020.00	240.35	104.15
J-27	0.00	1269.09	1070.00	199.09	86.27
J-28	0.00	1278.64	1050.00	228.64	99.08
J-29	0.00	1109.29	530.00	579.29	251.03
J-3	0.00	1294.59	1025.00	269.59	116.82
J-30	0.00	1109.29	530.00	579.29	251.03
J-31	0.00	1109.29	565.00	544.29	235.86
J-32	0.00	1109.29	900.00	209.29	90.69
J-33	0.00	1109.29	860.00	249.29	108.03
J-34	0.00	1268.77			
J-35	0.00	1109.29	1000.00	109.29	47.36
J-36	72.00 (0.48)	1148.49	1009.00	139.49	60.45
J-37	99.84 (0.48)	1109.30	998.50	110.80	48.01
J-38	157.44 (0.48)	1215.99			
J-39	0.00	1267.02	1070.00	197.02	85.37
J-4	0.00	1300.72	1010.00	290.72	125.98
J-40	0.00	1257.65	1040.00	217.65	94.31
J-41	0.00	1238.99	1070.00	168.99	73.23
J-42	0.00	1220.81	1130.00	90.81	39.35
J-43	0.00	1225.77	1130.00	95.77	41.50
J-5	0.00	1307.89	1040.00	267.89	116.09
J-6	0.00	1310.89	1050.00	260.89	113.05
J-7	0.00	1316.65	1000.00	316.65	137.22
J-8	0.00	1319.18	1021.00	298.18	129.21
J-9	0.00	1327.77	1040.00	287.77	124.70
PERSIMMON	----	1216.00	1115.00	101.00	43.77
I-Pump-1	0.00	1055.40			
O-Pump-2	0.00	1330.25	995.00	335.25	145.28
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1169.13			
I-Pump-2	0.00	1096.38	995.00	101.38	43.93
O-Pump-3	0.00	1109.29	540.00	569.29	246.69

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	251.03	I-Pump-3	4.33
J-30	251.03	J-1	34.34

O-Pump-3

246.69

J-42

39.35

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.34	P-43	0.16
P-27	3.34	P-12	0.28
P-11	2.51	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.50	P-43	0.01
P-26	5.50	P-12	0.02
P-11	3.25	P-1	0.07

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.50	P-43	0.01
P-26	5.50	P-12	0.02
P-11	3.25	P-1	0.07

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	1016.46	
COUNTY HOUS	-321.85	
PERSIMMON	-365.33	
R-2	0.00	

NET SYSTEM INFLOW = 1016.46
 NET SYSTEM OUTFLOW = -687.18
 NET SYSTEM DEMAND = 329.28

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
Pump-1	CLOSED	J-10	1148.50	1140.00
Pump-2	CLOSED	J-23	1216.00	1205.00

Time: 27.000

TIME FROM INITIATION OF EPS = 27.0000 HOURS (300 HOURS, DAY: 2)

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	NODE NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

PUMP/LOSS ELEMENT RESULTS

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1109.30	998.50	110.80	48.01
COUNTY HOU		----	1148.50	1009.00	139.50	60.45
J-1		0.00	1109.30	1028.00	81.30	35.23
J-10		0.00	1148.50	1020.00	128.50	55.68
J-11		0.00	1148.50	960.00	188.50	81.68
J-12		0.00	1148.50	785.00	363.50	157.51
J-13		0.00	1109.30	950.00	159.30	69.03
J-14		0.00	1109.30	780.00	329.30	142.70
J-15		0.00	1109.30	780.00	329.30	142.70
J-16		0.00	1109.30	915.00	194.30	84.20
J-17		0.00	1109.30	850.00	259.30	112.36
J-18		0.00	1109.30	990.00	119.30	51.70
J-19		0.00	1216.00	1030.00	186.00	80.60
J-2		0.00	1109.30	1000.00	109.30	47.36
J-20		0.00	1216.00	1050.00	166.00	71.93
J-21		0.00	1216.00	1050.00	166.00	71.93
J-22		0.00	1216.00	1005.00	211.00	91.43
J-23		0.00	1216.00	1090.00	126.00	54.60
J-24		0.00	1216.00	1090.00	126.00	54.60
J-25		0.00	1216.00	1060.00	156.00	67.60
J-26		0.00	1216.00	1020.00	196.00	84.93
J-27		0.00	1216.00	1070.00	146.00	63.27
J-28		0.00	1216.00	1050.00	166.00	71.93
J-29		0.00	1109.30	530.00	579.30	251.03
J-3		0.00	1216.00	1025.00	191.00	82.77
J-30		0.00	1109.30	530.00	579.30	251.03
J-31		0.00	1109.30	565.00	544.30	235.86
J-32		0.00	1109.30	900.00	209.30	90.70
J-33		0.00	1109.30	860.00	249.30	108.03
J-34		0.00	1216.00			
J-35		0.00	1109.30	1000.00	109.30	47.36
J-36		72.00 (0.48)	1148.49	1009.00	139.49	60.45
J-37		99.84 (0.48)	1109.30	998.50	110.80	48.01
J-38		157.44 (0.48)	1215.99			
J-39		0.00	1216.00	1070.00	146.00	63.27
J-4		0.00	1216.00	1010.00	206.00	89.27
J-40		0.00	1216.00	1040.00	176.00	76.27
J-41		0.00	1216.00	1070.00	146.00	63.27
J-42		0.00	1216.00	1130.00	86.00	37.27
J-43		0.00	1216.00	1130.00	86.00	37.27
J-5		0.00	1216.00	1040.00	176.00	76.27
J-6		0.00	1216.00	1050.00	166.00	71.93
J-7		0.00	1216.00	1000.00	216.00	93.60

J-9	0.00	1216.00	1021.00	195.00	84.50
PERSIMMON	----	1216.00	1115.00	101.00	43.77
I-Pump-1	0.00	1109.30			
O-Pump-2	0.00	1216.00	995.00	221.00	95.77
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
Pump-1	0.00	1148.50			
Pump-2	0.00	1109.30	995.00	114.30	49.53
O-Pump-3	0.00	1109.30	540.00	569.30	246.70

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	251.03	I-Pump-3	4.33
J-30	251.03	J-1	35.23
O-Pump-3	246.70	J-42	37.27

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 27.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-99.84	1109.30	24.30	447719.	71.5	DRAINING	23.97
COUNTY HOUS(1)	-72.00	1148.50	30.50	447954.	98.4	DRAINING	30.20
PERSIMMON(1)	-157.44	1216.00	26.00	282424.	100.0	DRAINING	25.13

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 28.000

TIME FROM INITIATION OF EPS = 28.0000 HOURS (400 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00

P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
Avail.	NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)		(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1108.97	998.50	110.47	47.87
COUNTY HOU		----	1148.20	1009.00	139.20	60.32
J-1		0.00	1108.97	1028.00	80.97	35.09
J-10		0.00	1148.20	1020.00	128.20	55.55
J-11		0.00	1148.20	960.00	188.20	81.55
J-12		0.00	1148.20	785.00	363.20	157.39
J-13		0.00	1108.97	950.00	158.97	68.89
J-14		0.00	1108.97	780.00	328.97	142.56
J-15		0.00	1108.97	780.00	328.97	142.56
J-16		0.00	1108.97	915.00	193.97	84.06
J-17		0.00	1108.97	850.00	258.97	112.22
J-18		0.00	1108.97	990.00	118.97	51.56
J-19		0.00	1215.13	1030.00	185.13	80.22
J-2		0.00	1108.97	1000.00	108.97	47.22
J-20		0.00	1215.13	1050.00	165.13	71.56
J-21		0.00	1215.13	1050.00	165.13	71.56
J-22		0.00	1215.13	1005.00	210.13	91.06
J-23		0.00	1215.13	1090.00	125.13	54.22
J-24		0.00	1215.13	1090.00	125.13	54.22

J-25	0.00	1215.13	1060.00	155.13	67.22
J-26	0.00	1215.13	1020.00	195.13	84.56
J-27	0.00	1215.13	1070.00	145.13	62.89
J-28	0.00	1215.13	1050.00	165.13	71.56
J-29	0.00	1108.97	530.00	578.97	250.89
J-3	0.00	1215.13	1025.00	190.13	82.39
J-30	0.00	1108.97	530.00	578.97	250.89
J-31	0.00	1108.97	565.00	543.97	235.72
J-32	0.00	1108.97	900.00	208.97	90.56
J-33	0.00	1108.97	860.00	248.97	107.89
J-34	0.00	1215.13			
J-35	0.00	1108.97	1000.00	108.97	47.22
J-36	72.00 (0.48)	1148.19	1009.00	139.19	60.32
J-37	99.84 (0.48)	1108.97	998.50	110.47	47.87
J-38	157.44 (0.48)	1215.12			
J-39	0.00	1215.13	1070.00	145.13	62.89
J-4	0.00	1215.13	1010.00	205.13	88.89
J-40	0.00	1215.13	1040.00	175.13	75.89
J-41	0.00	1215.13	1070.00	145.13	62.89
J-42	0.00	1215.13	1130.00	85.13	36.89
J-43	0.00	1215.13	1130.00	85.13	36.89
J-5	0.00	1215.13	1040.00	175.13	75.89
J-6	0.00	1215.13	1050.00	165.13	71.56
J-7	0.00	1215.13	1000.00	215.13	93.22
J-8	0.00	1215.13	1021.00	194.13	84.12
J-9	0.00	1215.13	1040.00	175.13	75.89
PERSIMMON	----	1215.13	1115.00	100.13	43.39
I-Pump-1	0.00	1108.97			
O-Pump-2	0.00	1215.13	995.00	220.13	95.39
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1148.20			
I-Pump-2	0.00	1108.97	995.00	113.97	49.39
O-Pump-3	0.00	1108.97	540.00	568.97	246.56

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.89	I-Pump-3	4.33
J-30	250.89	J-1	35.09
O-Pump-3	246.56	J-42	36.89

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH		INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
Avail.	NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)		(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1108.65	998.50	110.15	47.73
COUNTY HOU		----	1147.91	1009.00	138.91	60.19
J-1		0.00	1108.65	1028.00	80.65	34.95
J-10		0.00	1147.91	1020.00	127.91	55.43
J-11		0.00	1147.91	960.00	187.91	81.43
J-12		0.00	1147.91	785.00	362.91	157.26
J-13		0.00	1108.65	950.00	158.65	68.75
J-14		0.00	1108.65	780.00	328.65	142.41
J-15		0.00	1108.65	780.00	328.65	142.41
J-16		0.00	1108.65	915.00	193.65	83.91
J-17		0.00	1108.65	850.00	258.65	112.08
J-18		0.00	1108.65	990.00	118.65	51.41
J-19		0.00	1214.26	1030.00	184.26	79.84
J-2		0.00	1108.65	1000.00	108.65	47.08
J-20		0.00	1214.26	1050.00	164.26	71.18
J-21		0.00	1214.26	1050.00	164.26	71.18
J-22		0.00	1214.26	1005.00	209.26	90.68
J-23		0.00	1214.26	1090.00	124.26	53.84
J-24		0.00	1214.26	1090.00	124.26	53.84
J-25		0.00	1214.26	1060.00	154.26	66.84
J-26		0.00	1214.26	1020.00	194.26	84.18
J-27		0.00	1214.26	1070.00	144.26	62.51
J-28		0.00	1214.26	1050.00	164.26	71.18
J-29		0.00	1108.65	530.00	578.65	250.75
J-3		0.00	1214.26	1025.00	189.26	82.01
J-30		0.00	1108.65	530.00	578.65	250.75
J-31		0.00	1108.65	565.00	543.65	235.58
J-32		0.00	1108.65	900.00	208.65	90.41
J-33		0.00	1108.65	860.00	248.65	107.75
J-34		0.00	1214.26			
J-35		0.00	1108.65	1000.00	108.65	47.08
J-36		72.00 (0.48)	1147.90	1009.00	138.90	60.19
J-37		99.84 (0.48)	1108.65	998.50	110.15	47.73
J-38		157.44 (0.48)	1214.26			
J-39		0.00	1214.26	1070.00	144.26	62.51
J-4		0.00	1214.26	1010.00	204.26	88.51
J-40		0.00	1214.26	1040.00	174.26	75.51
J-41		0.00	1214.26	1070.00	144.26	62.51
J-42		0.00	1214.26	1130.00	84.26	36.51
J-43		0.00	1214.26	1130.00	84.26	36.51
J-5		0.00	1214.26	1040.00	174.26	75.51
J-6		0.00	1214.26	1050.00	164.26	71.18
J-7		0.00	1214.26	1000.00	214.26	92.84
J-8		0.00	1214.26	1021.00	193.26	83.74
J-9		0.00	1214.26	1040.00	174.26	75.51
PERSIMMON		----	1214.26	1115.00	99.26	43.01
I-Pump-1		0.00	1108.65			
O-Pump-2		0.00	1214.26	995.00	219.26	95.01
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1147.91			
I-Pump-2		0.00	1108.65	995.00	113.65	49.25
O-Pump-3		0.00	1108.65	540.00	568.65	246.41

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION MAXIMUM JUNCTION MINIMUM

NUMBER PRESSURES
(psi)

NUMBER PRESSURES
(psi)

J-29 250.75
J-30 250.75
O-Pump-3 246.41

I-Pump-3 4.33
J-1 34.95
J-42 36.51

VELOCITIES

PIPE NUMBER MAXIMUM VELOCITY (ft/s)

PIPE NUMBER MINIMUM VELOCITY (ft/s)

P-50 0.64
P-42 0.46

P-43 0.16
P-42 0.46

HL + ML / 1000

PIPE NUMBER MAXIMUM HL+ML/1000 (ft/ft)

PIPE NUMBER MINIMUM HL+ML/1000 (ft/ft)

P-50 0.20
P-42 0.14

P-43 0.01
P-42 0.14

HL / 1000

PIPE NUMBER MAXIMUM HL/1000 (ft/ft)

PIPE NUMBER MINIMUM HL/1000 (ft/ft)

P-50 0.20
P-42 0.14

P-43 0.01
P-42 0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 29.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1108.65	23.65	435738.	69.6	DRAINING	23.32
COUNTY HOUS (1)	-72.00	1147.91	29.91	439314.	96.5	DRAINING	29.61
PERSIMMON (1)	-157.44	1214.26	24.26	263532.	93.3	DRAINING	23.39

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 30.000

TIME FROM INITIATION OF EPS = 30.0000 HOURS (600 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS	
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)										

Device "Pump-1" is closed

Device "Pump-2" is closed

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1108.32	998.50	109.82	47.59
COUNTY HOU		----	1147.61	1009.00	138.61	60.07
J-1		0.00	1108.32	1028.00	80.32	34.81
J-10		0.00	1147.61	1020.00	127.61	55.30
J-11		0.00	1147.61	960.00	187.61	81.30
J-12		0.00	1147.61	785.00	362.61	157.13
J-13		0.00	1108.32	950.00	158.32	68.61
J-14		0.00	1108.32	780.00	328.32	142.27
J-15		0.00	1108.32	780.00	328.32	142.27
J-16		0.00	1108.32	915.00	193.32	83.77
J-17		0.00	1108.32	850.00	258.32	111.94
J-18		0.00	1108.32	990.00	118.32	51.27
J-19		0.00	1213.39	1030.00	183.39	79.47
J-2		0.00	1108.32	1000.00	108.32	46.94
J-20		0.00	1213.39	1050.00	163.39	70.80
J-21		0.00	1213.39	1050.00	163.39	70.80
J-22		0.00	1213.39	1005.00	208.39	90.30
J-23		0.00	1213.39	1090.00	123.39	53.47
J-24		0.00	1213.39	1090.00	123.39	53.47
J-25		0.00	1213.39	1060.00	153.39	66.47
J-26		0.00	1213.39	1020.00	193.39	83.80
J-27		0.00	1213.39	1070.00	143.39	62.13
J-28		0.00	1213.39	1050.00	163.39	70.80
J-29		0.00	1108.32	530.00	578.32	250.61
J-3		0.00	1213.39	1025.00	188.39	81.63
J-30		0.00	1108.32	530.00	578.32	250.61
J-31		0.00	1108.32	565.00	543.32	235.44
J-32		0.00	1108.32	900.00	208.32	90.27
J-33		0.00	1108.32	860.00	248.32	107.61
J-34		0.00	1213.39			
J-35		0.00	1108.32	1000.00	108.32	46.94
J-36		72.00 (0.48)	1147.61	1009.00	138.61	60.06
J-37		99.84 (0.48)	1108.32	998.50	109.82	47.59
J-38		157.44 (0.48)	1213.39			
J-39		0.00	1213.39	1070.00	143.39	62.13
J-4		0.00	1213.39	1010.00	203.39	88.13
J-40		0.00	1213.39	1040.00	173.39	75.13
J-41		0.00	1213.39	1070.00	143.39	62.13

J-42	0.00	1213.39	1130.00	83.39	36.13
J-43	0.00	1213.39	1130.00	83.39	36.13
J-5	0.00	1213.39	1040.00	173.39	75.13
J-6	0.00	1213.39	1050.00	163.39	70.80
J-7	0.00	1213.39	1000.00	213.39	92.47
J-8	0.00	1213.39	1021.00	192.39	83.37
J-9	0.00	1213.39	1040.00	173.39	75.13
SIMMON	----	1213.39	1115.00	98.39	42.63
I-Pump-1	0.00	1108.32			
O-Pump-2	0.00	1213.39	995.00	218.39	94.63
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1147.61			
I-Pump-2	0.00	1108.32	995.00	113.32	49.11
O-Pump-3	0.00	1108.32	540.00	568.32	246.27

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.61	I-Pump-3	4.33
J-30	250.61	J-1	34.81
O-Pump-3	246.27	J-42	36.13

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

() INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
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CLOYD WILLI 99.84
 COUNTY HOUS 72.00
 PERSIMMON 157.44
 R-2 0.00

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 30.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1108.32	23.32	429748.	68.6	DRAINING	23.00
COUNTY HOUS (1)	-72.00	1147.61	29.61	434994.	95.5	DRAINING	29.32
PERSIMMON (1)	-157.44	1213.39	23.39	254085.	90.0	DRAINING	22.52

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 31.000

TIME FROM INITIATION OF EPS = 31.0000 HOURS (700 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00

Pump	Device	Node	Flow	Head	Loss	Efficiency	Power	Cost	Total
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMENTAL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Av:		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1108.00	998.50	109.50	47.45
COUNTY HOU		----	1147.32	1009.00	138.32	59.94
J-1		0.00	1108.00	1028.00	80.00	34.67
J-10		0.00	1147.32	1020.00	127.32	55.17
J-11		0.00	1147.32	960.00	187.32	81.17
J-12		0.00	1147.32	785.00	362.32	157.01
J-13		0.00	1108.00	950.00	158.00	68.47
J-14		0.00	1108.00	780.00	328.00	142.13
J-15		0.00	1108.00	780.00	328.00	142.13
J-16		0.00	1108.00	915.00	193.00	83.63
J-17		0.00	1108.00	850.00	258.00	111.80
J-18		0.00	1108.00	990.00	118.00	51.13
J-19		0.00	1212.52	1030.00	182.52	79.09
J-2		0.00	1108.00	1000.00	108.00	46.80

J-20	0.00	1212.52	1050.00	162.52	70.42
J-21	0.00	1212.52	1050.00	162.52	70.42
J-22	0.00	1212.52	1005.00	207.52	89.92
J-23	0.00	1212.52	1090.00	122.52	53.09
J-24	0.00	1212.52	1090.00	122.52	53.09
J-25	0.00	1212.52	1060.00	152.52	66.09
J-26	0.00	1212.52	1020.00	192.52	83.42
J-27	0.00	1212.52	1070.00	142.52	61.76
J-28	0.00	1212.52	1050.00	162.52	70.42
J-29	0.00	1108.00	530.00	578.00	250.47
J-3	0.00	1212.52	1025.00	187.52	81.26
J-30	0.00	1108.00	530.00	578.00	250.47
J-31	0.00	1108.00	565.00	543.00	235.30
J-32	0.00	1108.00	900.00	208.00	90.13
J-33	0.00	1108.00	860.00	248.00	107.47
J-34	0.00	1212.52			
J-35	0.00	1108.00	1000.00	108.00	46.80
J-36	72.00 (0.48)	1147.31	1009.00	138.31	59.94
J-37	99.84 (0.48)	1108.00	998.50	109.50	47.45
J-38	157.44 (0.48)	1212.52			
J-39	0.00	1212.52	1070.00	142.52	61.76
J-4	0.00	1212.52	1010.00	202.52	87.76
J-40	0.00	1212.52	1040.00	172.52	74.76
J-41	0.00	1212.52	1070.00	142.52	61.76
J-42	0.00	1212.52	1130.00	82.52	35.76
J-43	0.00	1212.52	1130.00	82.52	35.76
J-5	0.00	1212.52	1040.00	172.52	74.76
J-6	0.00	1212.52	1050.00	162.52	70.42
J-7	0.00	1212.52	1000.00	212.52	92.09
J-8	0.00	1212.52	1021.00	191.52	82.99
J-9	0.00	1212.52	1040.00	172.52	74.76
PERSIMMON	----	1212.52	1115.00	97.52	42.26
I-Pump-1	0.00	1108.00			
O-Pump-2	0.00	1212.52	995.00	217.52	94.26
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1147.32			
I-Pump-2	0.00	1108.00	995.00	113.00	48.97
O-Pump-3	0.00	1108.00	540.00	568.00	246.13

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.47	I-Pump-3	4.33
J-30	250.47	J-1	34.67
O-Pump-3	246.13	J-42	35.76

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE	MAXIMUM	PIPE	MINIMUM
------	---------	------	---------

P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

 Device "Pump-1" is closed
 Device "Pump-2" is closed

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1107.67	998.50	109.17	47.31
COUNTY HOU		----	1147.03	1009.00	138.03	59.81
J-1		0.00	1107.67	1028.00	79.67	34.52
J-10		0.00	1147.03	1020.00	127.03	55.04
J-11		0.00	1147.03	960.00	187.03	81.04
J-12		0.00	1147.03	785.00	362.03	156.88
J-13		0.00	1107.67	950.00	157.67	68.32
J-14		0.00	1107.67	780.00	327.67	141.99
J-15		0.00	1107.67	780.00	327.67	141.99
J-16		0.00	1107.67	915.00	192.67	83.49
J-17		0.00	1107.67	850.00	257.67	111.66
J-18		0.00	1107.67	990.00	117.67	50.99
J-19		0.00	1211.65	1030.00	181.65	78.71
J-2		0.00	1107.67	1000.00	107.67	46.66
J-20		0.00	1211.65	1050.00	161.65	70.05
J-21		0.00	1211.65	1050.00	161.65	70.05
J-22		0.00	1211.65	1005.00	206.65	89.55
J-23		0.00	1211.65	1090.00	121.65	52.71
J-24		0.00	1211.65	1090.00	121.65	52.71
J-25		0.00	1211.65	1060.00	151.65	65.71
J-26		0.00	1211.65	1020.00	191.65	83.05
J-27		0.00	1211.65	1070.00	141.65	61.38
J-28		0.00	1211.65	1050.00	161.65	70.05
J-29		0.00	1107.67	530.00	577.67	250.32
J-3		0.00	1211.65	1025.00	186.65	80.88
J-30		0.00	1107.67	530.00	577.67	250.32
J-31		0.00	1107.67	565.00	542.67	235.16
J-32		0.00	1107.67	900.00	207.67	89.99
J-33		0.00	1107.67	860.00	247.67	107.32
J-34		0.00	1211.65			
J-35		0.00	1107.67	1000.00	107.67	46.66
J-36		72.00 (0.48)	1147.02	1009.00	138.02	59.81
J-37		99.84 (0.48)	1107.67	998.50	109.17	47.31
J-38		157.44 (0.48)	1211.65			
J-39		0.00	1211.65	1070.00	141.65	61.38
J-4		0.00	1211.65	1010.00	201.65	87.38
J-40		0.00	1211.65	1040.00	171.65	74.38
J-41		0.00	1211.65	1070.00	141.65	61.38
J-42		0.00	1211.65	1130.00	81.65	35.38
J-43		0.00	1211.65	1130.00	81.65	35.38
J-5		0.00	1211.65	1040.00	171.65	74.38
J-6		0.00	1211.65	1050.00	161.65	70.05
J-7		0.00	1211.65	1000.00	211.65	91.71
J-8		0.00	1211.65	1021.00	190.65	82.61
J-9		0.00	1211.65	1040.00	171.65	74.38
PERSIMMON		----	1211.65	1115.00	96.65	41.88
I-Pump-1		0.00	1107.67			
O-Pump-2		0.00	1211.65	995.00	216.65	93.88
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1147.03			
I-Pump-2		0.00	1107.67	995.00	112.67	48.82
O-Pump-3		0.00	1107.67	540.00	567.67	245.99

MAXIMUM AND MINIMUM VALUES

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Device "Pump-3" is closed

END MODE RESULTS

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.32	I-Pump-3	4.33
J-30	250.32	J-1	34.52
O-Pump-3	245.99	J-42	35.38

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 32.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1107.67	22.67	417767.	66.7	DRAINING	22.35

PERSIMMON(1) -157.44 1211.65 21.65 235192. 83.3 DRAINING 20.78

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Fig 33.000

TIME FROM INITIATION OF EPS = 33.0000 HOURS (900 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00

P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLAYD WILL		----	1107.35	998.50	108.85	47.17
C TY HOU		----	1146.73	1009.00	137.73	59.68
J-1		0.00	1107.35	1028.00	79.35	34.38
J-10		0.00	1146.73	1020.00	126.73	54.92
J-11		0.00	1146.73	960.00	186.73	80.92
J-12		0.00	1146.73	785.00	361.73	156.75
J-13		0.00	1107.35	950.00	157.35	68.18
J-14		0.00	1107.35	780.00	327.35	141.85
J-15		0.00	1107.35	780.00	327.35	141.85
J-16		0.00	1107.35	915.00	192.35	83.35
J-17		0.00	1107.35	850.00	257.35	111.52
J-18		0.00	1107.35	990.00	117.35	50.85
J-19		0.00	1210.78	1030.00	180.78	78.34
J-2		0.00	1107.35	1000.00	107.35	46.52
J-20		0.00	1210.78	1050.00	160.78	69.67
J-21		0.00	1210.78	1050.00	160.78	69.67
J-22		0.00	1210.78	1005.00	205.78	89.17
J-23		0.00	1210.78	1090.00	120.78	52.34
J-24		0.00	1210.78	1090.00	120.78	52.34
J-25		0.00	1210.78	1060.00	150.78	65.34
J-26		0.00	1210.78	1020.00	190.78	82.67
J-27		0.00	1210.78	1070.00	140.78	61.00
J-28		0.00	1210.78	1050.00	160.78	69.67
J-29		0.00	1107.35	530.00	577.35	250.18
J-3		0.00	1210.78	1025.00	185.78	80.50
J-30		0.00	1107.35	530.00	577.35	250.18
J-31		0.00	1107.35	565.00	542.35	235.02
J-32		0.00	1107.35	900.00	207.35	89.85
J-33		0.00	1107.35	860.00	247.35	107.18
J-34		0.00	1210.78			
J-35		0.00	1107.35	1000.00	107.35	46.52
J-36		72.00 (0.48)	1146.72	1009.00	137.72	59.68
J-37		99.84 (0.48)	1107.35	998.50	108.85	47.17

J-38	157.44 (0.48)	1210.78	1070.00	140.78	61.00
J-39	0.00	1210.78	1010.00	200.78	87.00
J-4	0.00	1210.78	1040.00	170.78	74.00
J-40	0.00	1210.78	1070.00	140.78	61.00
J-41	0.00	1210.78	1130.00	80.78	35.00
J-42	0.00	1210.78	1130.00	80.78	35.00
J-43	0.00	1210.78	1040.00	170.78	74.00
J-5	0.00	1210.78	1050.00	160.78	69.67
J-6	0.00	1210.78	1000.00	210.78	91.34
J-7	0.00	1210.78	1021.00	189.78	82.24
J-8	0.00	1210.78	1040.00	170.78	74.00
J-9	0.00	1210.78	1115.00	95.78	41.50
PERSIMMON	----	1210.78			
I-Pump-1	0.00	1107.35			
O-Pump-2	0.00	1210.78	995.00	215.78	93.50
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1146.73			
I-Pump-2	0.00	1107.35	995.00	112.35	48.68
O-Pump-3	0.00	1107.35	540.00	567.35	245.85

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.18	I-Pump-3	4.33
J-30	250.18	J-1	34.38
O-Pump-3	245.85	J-42	35.00

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	

P U M P / L O S S E L E M E N T R E S U L T S

NPSH NAME	FLOWRATE (gpm)	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
		HEAD (ft)	HEAD (ft)	HEAD (ft)	ENCY (%)	POWER (Hp)	COST (\$)	COST (\$)	PARALLEL	SERIES

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1107.02	998.50	108.52	47.03
COUNTY HOU		----	1146.44	1009.00	137.44	59.56
J-1		0.00	1107.02	1028.00	79.02	34.24
J-10		0.00	1146.44	1020.00	126.44	54.79
J-11		0.00	1146.44	960.00	186.44	80.79
J-12		0.00	1146.44	785.00	361.44	156.62
J-13		0.00	1107.02	950.00	157.02	68.04
J-14		0.00	1107.02	780.00	327.02	141.71
J-15		0.00	1107.02	780.00	327.02	141.71

J-16	0.00	1107.02	915.00	192.02	83.21
J-17	0.00	1107.02	850.00	257.02	111.38
J-18	0.00	1107.02	990.00	117.02	50.71
J-19	0.00	1209.91	1030.00	179.91	77.96
J-2	0.00	1107.02	1000.00	107.02	46.38
J-20	0.00	1209.91	1050.00	159.91	69.29
J-21	0.00	1209.91	1050.00	159.91	69.29
J-22	0.00	1209.91	1005.00	204.91	88.79
J-23	0.00	1209.91	1090.00	119.91	51.96
J-24	0.00	1209.91	1090.00	119.91	51.96
J-25	0.00	1209.91	1060.00	149.91	64.96
J-26	0.00	1209.91	1020.00	189.91	82.29
J-27	0.00	1209.91	1070.00	139.91	60.63
J-28	0.00	1209.91	1050.00	159.91	69.29
J-29	0.00	1107.02	530.00	577.02	250.04
J-3	0.00	1209.91	1025.00	184.91	80.13
J-30	0.00	1107.02	530.00	577.02	250.04
J-31	0.00	1107.02	565.00	542.02	234.88
J-32	0.00	1107.02	900.00	207.02	89.71
J-33	0.00	1107.02	860.00	247.02	107.04
J-34	0.00	1209.91			
J-35	0.00	1107.02	1000.00	107.02	46.38
J-36	72.00 (0.48)	1146.43	1009.00	137.43	59.55
J-37	99.84 (0.48)	1107.02	998.50	108.52	47.03
J-38	157.44 (0.48)	1209.91			
J-39	0.00	1209.91	1070.00	139.91	60.63
J-4	0.00	1209.91	1010.00	199.91	86.63
J-40	0.00	1209.91	1040.00	169.91	73.63
J-41	0.00	1209.91	1070.00	139.91	60.63
J-42	0.00	1209.91	1130.00	79.91	34.63
J-43	0.00	1209.91	1130.00	79.91	34.63
J-5	0.00	1209.91	1040.00	169.91	73.63
J-6	0.00	1209.91	1050.00	159.91	69.29
J-7	0.00	1209.91	1000.00	209.91	90.96
J-8	0.00	1209.91	1021.00	188.91	81.86
J-9	0.00	1209.91	1040.00	169.91	73.63
PERSIMMON	----	1209.91	1115.00	94.91	41.13
I-Pump-1	0.00	1107.02			
O-Pump-2	0.00	1209.91	995.00	214.91	93.13
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1146.44			
I-Pump-2	0.00	1107.02	995.00	112.02	48.54
O-Pump-3	0.00	1107.02	540.00	567.02	245.71

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	250.04	I-Pump-3	4.33
J-30	250.04	J-1	34.24
O-Pump-3	245.71	J-42	34.63

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16

P-42

0.46

P-42

0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

N. SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 34.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1107.02	22.02	405786.	64.8	DRAINING	21.70
COUNTY HOUS (1)	-72.00	1146.44	28.44	417714.	91.7	DRAINING	28.14
PERSIMMON (1)	-157.44	1209.91	19.91	216299.	76.6	DRAINING	19.04

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 35.000

TIME FROM INITIATION OF EPS = 35.0000 HOURS (1100 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1106.70	998.50	108.20	46.89
COUNTY HOU		----	1146.14	1009.00	137.14	59.43
J-1		0.00	1106.70	1028.00	78.70	34.10
J-10		0.00	1146.14	1020.00	126.14	54.66
J-11		0.00	1146.14	960.00	186.14	80.66
J-12		0.00	1146.14	785.00	361.14	156.50
J-13		0.00	1106.70	950.00	156.70	67.90
J-14		0.00	1106.70	780.00	326.70	141.57
J-15		0.00	1106.70	780.00	326.70	141.57
J-16		0.00	1106.70	915.00	191.70	83.07
J-17		0.00	1106.70	850.00	256.70	111.24
J-18		0.00	1106.70	990.00	116.70	50.57
J-19		0.00	1209.04	1030.00	179.04	77.58
J-2		0.00	1106.70	1000.00	106.70	46.24
J-20		0.00	1209.04	1050.00	159.04	68.92
J-21		0.00	1209.04	1050.00	159.04	68.92
J-22		0.00	1209.04	1005.00	204.04	88.42
J-23		0.00	1209.04	1090.00	119.04	51.58
J-24		0.00	1209.04	1090.00	119.04	51.58
J-25		0.00	1209.04	1060.00	149.04	64.58
J-26		0.00	1209.04	1020.00	189.04	81.92
J-27		0.00	1209.04	1070.00	139.04	60.25
J-28		0.00	1209.04	1050.00	159.04	68.92
J-29		0.00	1106.70	530.00	576.70	249.90
J-3		0.00	1209.04	1025.00	184.04	79.75
J-30		0.00	1106.70	530.00	576.70	249.90
J-31		0.00	1106.70	565.00	541.70	234.74
J-32		0.00	1106.70	900.00	206.70	89.57
J-33		0.00	1106.70	860.00	246.70	106.90
J-34		0.00	1209.04			
J-35		0.00	1106.70	1000.00	106.70	46.24
J-36		72.00 (0.48)	1146.14	1009.00	137.14	59.43
J-37		99.84 (0.48)	1106.70	998.50	108.20	46.89
J-38		157.44 (0.48)	1209.04			
J-39		0.00	1209.04	1070.00	139.04	60.25
J-4		0.00	1209.04	1010.00	199.04	86.25
J-40		0.00	1209.04	1040.00	169.04	73.25
J-41		0.00	1209.04	1070.00	139.04	60.25
J-42		0.00	1209.04	1130.00	79.04	34.25
J-43		0.00	1209.04	1130.00	79.04	34.25
J-5		0.00	1209.04	1040.00	169.04	73.25
J-6		0.00	1209.04	1050.00	159.04	68.92
J-7		0.00	1209.04	1000.00	209.04	90.58
J-8		0.00	1209.04	1021.00	188.04	81.48
J-9		0.00	1209.04	1040.00	169.04	73.25
PERSIMMON		----	1209.04	1115.00	94.04	40.75
I-Pump-1		0.00	1106.70			
Pump-2		0.00	1209.04	995.00	214.04	92.75
-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
O-Pump-1		0.00	1146.14			
I-Pump-2		0.00	1106.70	995.00	111.70	48.40

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.90	I-Pump-3	4.33
J-30	249.90	J-1	34.10
O-Pump-3	245.57	J-42	34.25

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 35.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-99.84	1106.70	21.70	399796.	63.8	DRAINING	21.37
COUNTY HOUS(1)	-72.00	1146.14	28.14	413394.	90.8	DRAINING	27.85
PERSIMMON(1)	-157.44	1209.04	19.04	206853.	73.2	DRAINING	18.17

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 36.000

TIME FROM INITIATION OF EPS = 36.0000 HOURS (1200 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00

P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS		
NAME	FLOWRATE	HEAD	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1106.37	998.50	107.87	46.74
COUNTY HOU		----	1145.85	1009.00	136.85	59.30
J-1		0.00	1106.37	1028.00	78.37	33.96
J-10		0.00	1145.85	1020.00	125.85	54.53
J-11		0.00	1145.85	960.00	185.85	80.53
J-12		0.00	1145.85	785.00	360.85	156.37
J-13		0.00	1106.37	950.00	156.37	67.76
J-14		0.00	1106.37	780.00	326.37	141.43
J-15		0.00	1106.37	780.00	326.37	141.43
J-16		0.00	1106.37	915.00	191.37	82.93
J-17		0.00	1106.37	850.00	256.37	111.09
J-18		0.00	1106.37	990.00	116.37	50.43
J-19		0.00	1208.17	1030.00	178.17	77.21
J-2		0.00	1106.37	1000.00	106.37	46.09
J-20		0.00	1208.17	1050.00	158.17	68.54
J-21		0.00	1208.17	1050.00	158.17	68.54
J-22		0.00	1208.17	1005.00	203.17	88.04
J-23		0.00	1208.17	1090.00	118.17	51.21
J-24		0.00	1208.17	1090.00	118.17	51.21
J-25		0.00	1208.17	1060.00	148.17	64.21
J-26		0.00	1208.17	1020.00	188.17	81.54
J-27		0.00	1208.17	1070.00	138.17	59.87
J-28		0.00	1208.17	1050.00	158.17	68.54
J-29		0.00	1106.37	530.00	576.37	249.76
J-3		0.00	1208.17	1025.00	183.17	79.37
J-30		0.00	1106.37	530.00	576.37	249.76
J-31		0.00	1106.37	565.00	541.37	234.59
J-32		0.00	1106.37	900.00	206.37	89.43

J-33	0.00	1106.37	860.00	246.37	106.76
J-34	0.00	1208.17			
J-35	0.00	1106.37	1000.00	106.37	46.09
J-36	72.00 (0.48)	1145.84	1009.00	136.84	59.30
J-37	99.84 (0.48)	1106.37	998.50	107.87	46.74
J-38	157.44 (0.48)	1208.17			
J-39	0.00	1208.17	1070.00	138.17	59.87
J-4	0.00	1208.17	1010.00	198.17	85.87
J-40	0.00	1208.17	1040.00	168.17	72.87
J-41	0.00	1208.17	1070.00	138.17	59.87
J-42	0.00	1208.17	1130.00	78.17	33.87
J-43	0.00	1208.17	1130.00	78.17	33.87
J-5	0.00	1208.17	1040.00	168.17	72.87
J-6	0.00	1208.17	1050.00	158.17	68.54
J-7	0.00	1208.17	1000.00	208.17	90.21
J-8	0.00	1208.17	1021.00	187.17	81.11
J-9	0.00	1208.17	1040.00	168.17	72.87
PERSIMMON	----	1208.17	1115.00	93.17	40.37
I-Pump-1	0.00	1106.37			
O-Pump-2	0.00	1208.17	995.00	213.17	92.37
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1145.85			
I-Pump-2	0.00	1106.37	995.00	111.37	48.26
O-Pump-3	0.00	1106.37	540.00	566.37	245.43

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.76	I-Pump-3	4.33
J-30	249.76	J-42	33.87
O-Pump-3	245.43	J-43	33.87

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CL J WILL		----	1106.05	998.50	107.55	46.60
COUNTY HOU		----	1145.56	1009.00	136.56	59.17
J-1		0.00	1106.05	1028.00	78.05	33.82
J-10		0.00	1145.56	1020.00	125.56	54.41

J-11	0.00	1145.56	960.00	185.56	80.41
J-12	0.00	1145.56	785.00	360.56	156.24
J-13	0.00	1106.05	950.00	156.05	67.62
J-14	0.00	1106.05	780.00	326.05	141.29
J-15	0.00	1106.05	780.00	326.05	141.29
J-16	0.00	1106.05	915.00	191.05	82.79
J-17	0.00	1106.05	850.00	256.05	110.95
J-18	0.00	1106.05	990.00	116.05	50.29
J-19	0.00	1207.30	1030.00	177.30	76.83
J-2	0.00	1106.05	1000.00	106.05	45.95
J-20	0.00	1207.30	1050.00	157.30	68.16
J-21	0.00	1207.30	1050.00	157.30	68.16
J-22	0.00	1207.30	1005.00	202.30	87.66
J-23	0.00	1207.30	1090.00	117.30	50.83
J-24	0.00	1207.30	1090.00	117.30	50.83
J-25	0.00	1207.30	1060.00	147.30	63.83
J-26	0.00	1207.30	1020.00	187.30	81.16
J-27	0.00	1207.30	1070.00	137.30	59.50
J-28	0.00	1207.30	1050.00	157.30	68.16
J-29	0.00	1106.05	530.00	576.05	249.62
J-3	0.00	1207.30	1025.00	182.30	79.00
J-30	0.00	1106.05	530.00	576.05	249.62
J-31	0.00	1106.05	565.00	541.05	234.45
J-32	0.00	1106.05	900.00	206.05	89.29
J-33	0.00	1106.05	860.00	246.05	106.62
J-34	0.00	1207.30			
J-35	0.00	1106.05	1000.00	106.05	45.95
J-36	72.00 (0.48)	1145.55	1009.00	136.55	59.17
J-37	99.84 (0.48)	1106.05	998.50	107.55	46.60
J-38	157.44 (0.48)	1207.30			
J-39	0.00	1207.30	1070.00	137.30	59.50
J-4	0.00	1207.30	1010.00	197.30	85.50
J-40	0.00	1207.30	1040.00	167.30	72.50
J-41	0.00	1207.30	1070.00	137.30	59.50
J-42	0.00	1207.30	1130.00	77.30	33.50
J-43	0.00	1207.30	1130.00	77.30	33.50
J-5	0.00	1207.30	1040.00	167.30	72.50
J-6	0.00	1207.30	1050.00	157.30	68.16
J-7	0.00	1207.30	1000.00	207.30	89.83
J-8	0.00	1207.30	1021.00	186.30	80.73
J-9	0.00	1207.30	1040.00	167.30	72.50
PERSIMMON	----	1207.30	1115.00	92.30	40.00
I-Pump-1	0.00	1106.05			
O-Pump-2	0.00	1207.30	995.00	212.30	92.00
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1145.56			
I-Pump-2	0.00	1106.05	995.00	111.05	48.12
O-Pump-3	0.00	1106.05	540.00	566.05	245.29

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.62	I-Pump-3	4.33
J-30	249.62	J-42	33.50
O-Pump-3	245.29	J-43	33.50

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 37.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1106.05	21.05	387815.	61.9	DRAINING	20.72
COUNTY HOUS (1)	-72.00	1145.56	27.56	404754.	88.9	DRAINING	27.26
PERSIMMON (1)	-157.44	1207.30	17.30	187960.	66.5	DRAINING	16.43

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 38.000

TIME FROM INITIATION OF EPS = 38.0000 HOURS (1400 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

P/LOSS ELEMENT RESULTS

INLET OUTLET PUMP EFFIC- USEFUL INCREMTL TOTAL #PUMPS #PUMPS

IPSH
 NAME FLOWRATE HEAD HEAD HEAD ENCY POWER COST COST PARALLEL SERIES
 avail. (gpm) (ft) (ft) (ft) (%) (Hp) (\$) (\$)
 (ft)

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.72	998.50	107.22	46.46
COUNTY HOU		----	1145.26	1009.00	136.26	59.05
J-1		0.00	1105.72	1028.00	77.72	33.68
J-10		0.00	1145.26	1020.00	125.26	54.28
J-11		0.00	1145.26	960.00	185.26	80.28
J-12		0.00	1145.26	785.00	360.26	156.11
J-13		0.00	1105.72	950.00	155.72	67.48
J-14		0.00	1105.72	780.00	325.72	141.15
J-15		0.00	1105.72	780.00	325.72	141.15
J-16		0.00	1105.72	915.00	190.72	82.65
J-17		0.00	1105.72	850.00	255.72	110.81
J-18		0.00	1105.72	990.00	115.72	50.15
J-19		0.00	1206.43	1030.00	176.43	76.45
J-2		0.00	1105.72	1000.00	105.72	45.81
J-20		0.00	1206.43	1050.00	156.43	67.79
J-21		0.00	1206.43	1050.00	156.43	67.79
J-22		0.00	1206.43	1005.00	201.43	87.29
J-23		0.00	1206.43	1090.00	116.43	50.45
J-24		0.00	1206.43	1090.00	116.43	50.45
J-25		0.00	1206.43	1060.00	146.43	63.45
J-26		0.00	1206.43	1020.00	186.43	80.79
J-27		0.00	1206.43	1070.00	136.43	59.12
J-28		0.00	1206.43	1050.00	156.43	67.79
J-29		0.00	1105.72	530.00	575.72	249.48
J-3		0.00	1206.43	1025.00	181.43	78.62
J-30		0.00	1105.72	530.00	575.72	249.48
J-31		0.00	1105.72	565.00	540.72	234.31
J-32		0.00	1105.72	900.00	205.72	89.15
J-33		0.00	1105.72	860.00	245.72	106.48
J-34		0.00	1206.43			
J-35		0.00	1105.72	1000.00	105.72	45.81
J-36		72.00 (0.48)	1145.25	1009.00	136.25	59.04
J-37		99.84 (0.48)	1105.72	998.50	107.22	46.46
J-38		157.44 (0.48)	1206.43			
J-39		0.00	1206.43	1070.00	136.43	59.12
J-4		0.00	1206.43	1010.00	196.43	85.12
J-40		0.00	1206.43	1040.00	166.43	72.12
J-41		0.00	1206.43	1070.00	136.43	59.12
J-42		0.00	1206.43	1130.00	76.43	33.12
J-43		0.00	1206.43	1130.00	76.43	33.12
J-5		0.00	1206.43	1040.00	166.43	72.12
J-6		0.00	1206.43	1050.00	156.43	67.79
J-7		0.00	1206.43	1000.00	206.43	89.45
J-8		0.00	1206.43	1021.00	185.43	80.35
J-9		0.00	1206.43	1040.00	166.43	72.12
PERSIMMON		----	1206.43	1115.00	91.43	39.62
I-Pump-1		0.00	1105.72			

O-Pump-2	0.00	1206.43	995.00	211.43	91.62
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1145.26			
I-Pump-2	0.00	1105.72	995.00	110.72	47.98
O-Pump-3	0.00	1105.72	540.00	565.72	245.15

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.48	I-Pump-3	4.33
J-30	249.48	J-42	33.12
O-Pump-3	245.15	J-43	33.12

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 38.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1105.72	20.72	381824.	60.9	DRAINING	20.40
COUNTY HOUS (1)	-72.00	1145.26	27.26	400434.	87.9	DRAINING	26.97
PERSIMMON (1)	-157.44	1206.43	16.43	178514.	63.2	DRAINING	15.56

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 39.000

TIME FROM INITIATION OF EPS = 39.0000 HOURS (1500 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	NODE NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9	J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00

P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	

P U M P / L O S S E L E M E N T R E S U L T S

NPSH NAME	FLOWRATE (gpm)	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
		HEAD (ft)	HEAD (ft)	HEAD (ft)	ENCY (%)	POWER (Hp)	COST (\$)	COST (\$)	PARALLEL	SERIES

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.40	998.50	106.90	46.32
COUNTY HOU		----	1144.97	1009.00	135.97	58.92
J-1		0.00	1105.40	1028.00	77.40	33.54
J-10		0.00	1144.97	1020.00	124.97	54.15
J-11		0.00	1144.97	960.00	184.97	80.15
J-12		0.00	1144.97	785.00	359.97	155.99
J-13		0.00	1105.40	950.00	155.40	67.34
J-14		0.00	1105.40	780.00	325.40	141.01
J-15		0.00	1105.40	780.00	325.40	141.01
J-16		0.00	1105.40	915.00	190.40	82.51
J-17		0.00	1105.40	850.00	255.40	110.67
J-18		0.00	1105.40	990.00	115.40	50.01
J-19		0.00	1205.56	1030.00	175.56	76.08
J-2		0.00	1105.40	1000.00	105.40	45.67
J-20		0.00	1205.56	1050.00	155.56	67.41
J-21		0.00	1205.56	1050.00	155.56	67.41
J-22		0.00	1205.56	1005.00	200.56	86.91
J-23		0.00	1205.56	1090.00	115.56	50.08
J-24		0.00	1205.56	1090.00	115.56	50.08
J-25		0.00	1205.56	1060.00	145.56	63.08
J-26		0.00	1205.56	1020.00	185.56	80.41
J-27		0.00	1205.56	1070.00	135.56	58.74
J-28		0.00	1205.56	1050.00	155.56	67.41

J-29	0.00	1105.40	530.00	575.40	249.34
J-3	0.00	1205.56	1025.00	180.56	78.24
J-30	0.00	1105.40	530.00	575.40	249.34
J-31	0.00	1105.40	565.00	540.40	234.17
J-32	0.00	1105.40	900.00	205.40	89.01
J-33	0.00	1105.40	860.00	245.40	106.34
J-34	0.00	1205.56			
J-35	0.00	1105.40	1000.00	105.40	45.67
J-36	72.00 (0.48)	1144.96	1009.00	135.96	58.92
J-37	99.84 (0.48)	1105.40	998.50	106.90	46.32
J-38	157.44 (0.48)	1205.56			
J-39	0.00	1205.56	1070.00	135.56	58.74
J-4	0.00	1205.56	1010.00	195.56	84.74
J-40	0.00	1205.56	1040.00	165.56	71.74
J-41	0.00	1205.56	1070.00	135.56	58.74
J-42	0.00	1205.56	1130.00	75.56	32.74
J-43	0.00	1205.56	1130.00	75.56	32.74
J-5	0.00	1205.56	1040.00	165.56	71.74
J-6	0.00	1205.56	1050.00	155.56	67.41
J-7	0.00	1205.56	1000.00	205.56	89.08
J-8	0.00	1205.56	1021.00	184.56	79.98
J-9	0.00	1205.56	1040.00	165.56	71.74
PERSIMMON	----	1205.56	1115.00	90.56	39.24
I-Pump-1	0.00	1105.40			
O-Pump-2	0.00	1205.56	995.00	210.56	91.24
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.97			
I-Pump-2	0.00	1105.40	995.00	110.40	47.84
O-Pump-3	0.00	1105.40	540.00	565.40	245.01

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.34	I-Pump-3	4.33
J-30	249.34	J-42	32.74
O-Pump-3	245.01	J-43	32.74

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE	MAXIMUM	PIPE	MINIMUM
------	---------	------	---------

P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19	J-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20	J-21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22	J-19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20	J-28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)

CLOYD WILL	----	1105.07	998.50	106.57	46.18
COUNTY HOU	----	1144.67	1009.00	135.67	58.79
J-1	0.00	1105.07	1028.00	77.07	33.40
J-10	0.00	1144.67	1020.00	124.67	54.02
J-11	0.00	1144.67	960.00	184.67	80.02
J-12	0.00	1144.67	785.00	359.67	155.86
J-13	0.00	1105.07	950.00	155.07	67.20
J-14	0.00	1105.07	780.00	325.07	140.86
J-15	0.00	1105.07	780.00	325.07	140.86
J-16	0.00	1105.07	915.00	190.07	82.36
J-17	0.00	1105.07	850.00	255.07	110.53
J-18	0.00	1105.07	990.00	115.07	49.86
J-19	0.00	1204.69	1030.00	174.69	75.70
J-2	0.00	1105.07	1000.00	105.07	45.53
J-20	0.00	1204.69	1050.00	154.69	67.03
J-21	0.00	1204.69	1050.00	154.69	67.03
J-22	0.00	1204.69	1005.00	199.69	86.53
J-23	0.00	1204.69	1090.00	114.69	49.70
J-24	0.00	1204.69	1090.00	114.69	49.70
J-25	0.00	1204.69	1060.00	144.69	62.70
J-26	0.00	1204.69	1020.00	184.69	80.03
J-27	0.00	1204.69	1070.00	134.69	58.37
J-28	0.00	1204.69	1050.00	154.69	67.03
J-29	0.00	1105.07	530.00	575.07	249.20
J-3	0.00	1204.69	1025.00	179.69	77.87
J-30	0.00	1105.07	530.00	575.07	249.20
J-31	0.00	1105.07	565.00	540.07	234.03
J-32	0.00	1105.07	900.00	205.07	88.86
J-33	0.00	1105.07	860.00	245.07	106.20
J-34	0.00	1204.69			
J-35	0.00	1105.07	1000.00	105.07	45.53
J-36	72.00 (0.48)	1144.67	1009.00	135.67	58.79
J-37	99.84 (0.48)	1105.07	998.50	106.57	46.18
J-38	157.44 (0.48)	1204.69			
J-39	0.00	1204.69	1070.00	134.69	58.37
J-4	0.00	1204.69	1010.00	194.69	84.37
J-40	0.00	1204.69	1040.00	164.69	71.37
J-41	0.00	1204.69	1070.00	134.69	58.37
J-42	0.00	1204.69	1130.00	74.69	32.37
J-43	0.00	1204.69	1130.00	74.69	32.37
J-5	0.00	1204.69	1040.00	164.69	71.37
J-6	0.00	1204.69	1050.00	154.69	67.03
J-7	0.00	1204.69	1000.00	204.69	88.70
J-8	0.00	1204.69	1021.00	183.69	79.60
J-9	0.00	1204.69	1040.00	164.69	71.37
PERSIMMON	----	1204.69	1115.00	89.69	38.87
I-Pump-1	0.00	1105.07			
O-Pump-2	0.00	1204.69	995.00	209.69	90.87
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.67			
I-Pump-2	0.00	1105.07	995.00	110.07	47.70
O-Pump-3	0.00	1105.07	540.00	565.07	244.86

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.20	I-Pump-3	4.33

J-30	249.20	J-42	32.37
O-Pump-3	244.86	J-43	32.37

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

Switch Activated

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-2	OPENED	J-23	1204.69	1214.00
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Time: 40.000

TIME FROM INITIATION OF EPS = 40.0000 HOURS (1600 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE ME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	532.13	0.00	0.00	0.38	0.03	0.03
P-10	J-9	J-8	532.13	8.88	0.00	2.17	1.92	1.92
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	532.13	2.17	0.00	2.17	1.92	1.92
P-22	J-19	J-20	532.13	1.48	0.00	2.17	1.92	1.92
P-23	J-20	J-21	367.87	11.62	0.00	2.35	2.87	2.87
P-24	J-22	J-19	532.13	2.42	0.00	2.17	1.92	1.92
P-25	J-20	J-28	164.26	10.42	0.00	1.86	2.61	2.61
P-26	J-42	J-24	532.13	4.77	0.00	3.40	5.68	5.68
P-27	J-24	J-23	532.13	0.20	0.00	3.40	5.68	5.68
P-28	J-25	J-42	164.26	21.73	0.00	1.86	2.61	2.61
P-29	J-26	J-25	164.26	19.13	0.00	1.86	2.61	2.61
P-3	J-2	I-Pump-2	532.13	11.66	0.00	2.17	1.92	1.92
P-30	J-27	J-26	164.26	9.03	0.00	1.86	2.61	2.61
P-31	J-28	J-27	164.26	9.87	0.00	1.86	2.61	2.61
P-32	J-21	J-34	367.87	8.99	0.00	2.35	2.87	2.87
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	532.13	2.56	0.00	2.17	1.92	1.92
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	532.13	0.59	0.00	0.85	0.19	0.19
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	532.13	0.01	0.00	2.17	1.92	1.92
P-45	J-34	J-39	367.87	1.82	0.00	2.35	2.87	2.87
P-46	J-39	J-40	367.87	9.68	0.00	2.35	2.87	2.87
P-47	J-40	J-41	367.87	19.29	0.00	2.35	2.87	2.87
P-48	J-41	J-43	367.87	13.66	0.00	2.35	2.87	2.87
P-49	J-43	J-42	367.87	5.12	0.00	2.35	2.87	2.87
P-5	J-4	J-3	532.13	6.33	0.00	2.17	1.92	1.92
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	532.13	7.41	0.00	2.17	1.92	1.92
P-7	J-6	J-5	532.13	3.10	0.00	2.17	1.92	1.92
P-8	J-7	J-6	532.13	5.95	0.00	2.17	1.92	1.92
P-9	J-8	J-7	532.13	2.61	0.00	2.17	1.92	1.92

AMPL/LOSS ELEMENT RESULTS

INLET OUTLET PUMP EFFIC- USEFUL INCREMTL TOTAL #PUMPS #PUMPS

IPSH NAME FLOWRATE HEAD HEAD HEAD ENCY POWER COST COST PARALLEL SERIES

avail. (gpm) (ft) (ft) (ft) (%) (Hp) (\$) (\$)

(ft)

Device "Pump-1" is closed

Pump-2 532.13 97.81 327.76 230.0 75.00 31. 1.5 43.0 ** **

130.9

Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1105.07	998.50	106.57	46.18
COUNTY HOU		----	1144.67	1009.00	135.67	58.79
J-1		0.00	1104.48	1028.00	76.48	33.14
J-10		0.00	1144.67	1020.00	124.67	54.02
J-11		0.00	1144.67	960.00	184.67	80.02
J-12		0.00	1144.67	785.00	359.67	155.86
J-13		0.00	1104.48	950.00	154.48	66.94
J-14		0.00	1104.48	780.00	324.48	140.61
J-15		0.00	1104.48	780.00	324.48	140.61
J-16		0.00	1104.48	915.00	189.48	82.11
J-17		0.00	1104.48	850.00	254.48	110.27
J-18		0.00	1104.48	990.00	114.48	49.61
J-19		0.00	1281.32	1030.00	251.32	108.91
J-2		0.00	1104.48	1000.00	104.48	45.27
J-20		0.00	1279.85	1050.00	229.85	99.60
J-21		0.00	1268.23	1050.00	218.23	94.56
J-22		0.00	1283.74	1005.00	278.74	120.79
J-23		0.00	1204.70	1090.00	114.70	49.70
J-24		0.00	1204.90	1090.00	114.90	49.79
J-25		0.00	1231.40	1060.00	171.40	74.27
J-26		0.00	1250.52	1020.00	230.52	99.89
J-27		0.00	1259.56	1070.00	189.56	82.14
J-28		0.00	1269.43	1050.00	219.43	95.09
J-29		0.00	1105.07	530.00	575.07	249.20
J-3		0.00	1285.91	1025.00	260.91	113.06
J-30		0.00	1105.07	530.00	575.07	249.20
J-31		0.00	1105.07	565.00	540.07	234.03
J-32		0.00	1105.07	900.00	205.07	88.86
J-33		0.00	1105.07	860.00	245.07	106.20
J-34		0.00	1259.23			
J-35		0.00	1105.07	1000.00	105.07	45.53
J-36		72.00 (0.48)	1144.67	1009.00	135.67	58.79
J-37		99.84 (0.48)	1105.07	998.50	106.57	46.18
J-38		157.44 (0.48)	1204.69			
J-39		0.00	1257.42	1070.00	187.42	81.21
J-4		0.00	1292.25	1010.00	282.25	122.31
J-40		0.00	1247.74	1040.00	207.74	90.02
J-41		0.00	1228.45	1070.00	158.45	68.66
J-42		0.00	1209.67	1130.00	79.67	34.52
J-43		0.00	1214.79	1130.00	84.79	36.74
J-5		0.00	1299.66	1040.00	259.66	112.52
J-6		0.00	1302.76	1050.00	252.76	109.53
J-7		0.00	1308.71	1000.00	308.71	133.77
J-8		0.00	1311.32	1021.00	290.32	125.81
J-9		0.00	1320.20	1040.00	280.20	121.42

PERSIMMON		1204.69	1115.00	89.69	38.87
I-Pump-1	0.00	1104.48			
O-Pump-2	0.00	1322.76	995.00	327.76	142.03
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.67			
I-Pump-2	0.00	1092.81	995.00	97.81	42.39
Pump-3	0.00	1105.07	540.00	565.07	244.86

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	249.20	I-Pump-3	4.33
J-30	249.20	J-1	33.14
O-Pump-3	244.86	J-42	34.52

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.40	P-43	0.16
P-27	3.40	P-1	0.38
P-23	2.35	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.68	P-43	0.01
P-26	5.68	P-1	0.03
P-48	2.87	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.68	P-43	0.01
P-26	5.68	P-1	0.03
P-48	2.87	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	631.97	
COUNTY HOUS	72.00	
PERSIMMON	-374.69	

P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	527.41	2.52	0.00	2.15	1.88	1.88	1.88
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	527.41	0.58	0.00	0.84	0.19	0.19	0.19
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	527.41	0.01	0.00	2.15	1.88	1.88	1.88
P-45	J-34	J-39	364.61	1.79	0.00	2.33	2.82	2.82	2.82
P-46	J-39	J-40	364.61	9.52	0.00	2.33	2.82	2.82	2.82
P-47	J-40	J-41	364.61	18.97	0.00	2.33	2.82	2.82	2.82
P-48	J-41	J-43	364.61	13.44	0.00	2.33	2.82	2.82	2.82
P-49	J-43	J-42	364.61	5.04	0.00	2.33	2.82	2.82	2.82
P-5	J-4	J-3	527.41	6.23	0.00	2.15	1.88	1.88	1.88
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	527.41	7.29	0.00	2.15	1.88	1.88	1.88
P-7	J-6	J-5	527.41	3.05	0.00	2.15	1.88	1.88	1.88
P-8	J-7	J-6	527.41	5.86	0.00	2.15	1.88	1.88	1.88
P-9	J-8	J-7	527.41	2.57	0.00	2.15	1.88	1.88	1.88

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed
Pump-2 527.41 95.96 327.90 231.9 75.00 31. 1.5 44.5 ** **
129.1
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1103.01	998.50	104.51	45.29
COUNTY HOU		----	1144.38	1009.00	135.38	58.66
J-1		0.00	1102.43	1028.00	74.43	32.25
J-10		0.00	1144.38	1020.00	124.38	53.90
J-11		0.00	1144.38	960.00	184.38	79.90
J-12		0.00	1144.38	785.00	359.38	155.73
J-13		0.00	1102.43	950.00	152.43	66.05
J-14		0.00	1102.43	780.00	322.43	139.72
J-15		0.00	1102.43	780.00	322.43	139.72
J-16		0.00	1102.43	915.00	187.43	81.22
J-17		0.00	1102.43	850.00	252.43	109.39
J-18		0.00	1102.43	990.00	112.43	48.72
J-19		0.00	1282.14	1030.00	252.14	109.26
J-2		0.00	1102.43	1000.00	102.43	44.39
J-20		0.00	1280.69	1050.00	230.69	99.97
J-21		0.00	1269.26	1050.00	219.26	95.01
J-22		0.00	1284.52	1005.00	279.52	121.13

J-23	0.00	1206.77	1090.00	116.77	50.60
J-24	0.00	1206.97	1090.00	116.97	50.68
J-25	0.00	1233.03	1060.00	173.03	74.98
J-26	0.00	1251.84	1020.00	231.84	100.47
J-27	0.00	1260.73	1070.00	190.73	82.65
J-28	0.00	1270.44	1050.00	220.44	95.52
J-29	0.00	1103.01	530.00	573.01	248.31
J-3	0.00	1286.65	1025.00	261.65	113.38
J-30	0.00	1103.01	530.00	573.01	248.31
J-31	0.00	1103.01	565.00	538.01	233.14
J-32	0.00	1103.01	900.00	203.01	87.97
J-33	0.00	1103.01	860.00	243.01	105.31
J-34	0.00	1260.41			
J-35	0.00	1103.01	1000.00	103.01	44.64
J-36	72.00 (0.48)	1144.37	1009.00	135.37	58.66
J-37	99.84 (0.48)	1103.01	998.50	104.51	45.29
J-38	157.44 (0.48)	1206.76			
J-39	0.00	1258.63	1070.00	188.63	81.74
J-4	0.00	1292.88	1010.00	282.88	122.58
J-40	0.00	1249.10	1040.00	209.10	90.61
J-41	0.00	1230.13	1070.00	160.13	69.39
J-42	0.00	1211.66	1130.00	81.66	35.39
J-43	0.00	1216.70	1130.00	86.70	37.57
J-5	0.00	1300.17	1040.00	260.17	112.74
J-6	0.00	1303.22	1050.00	253.22	109.73
J-7	0.00	1309.08	1000.00	309.08	133.93
J-8	0.00	1311.65	1021.00	290.65	125.95
J-9	0.00	1320.38	1040.00	280.38	121.50
PERSIMMON	----	1206.76	1115.00	91.76	39.76
I-Pump-1	0.00	1102.43			
O-Pump-2	0.00	1322.90	995.00	327.90	142.09
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.38			
Pump-2	0.00	1090.96	995.00	95.96	41.58
Pump-3	0.00	1103.01	540.00	563.01	243.97

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	248.31	I-Pump-3	4.33
J-30	248.31	J-1	32.25
O-Pump-3	243.97	J-42	35.39

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.37	P-43	0.16
P-27	3.37	P-1	0.37
P-23	2.33	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
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P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	527.42	2.13	0.00	2.15	1.88	1.88	1.88
P-22	J-19	J-20	527.42	1.45	0.00	2.15	1.88	1.88	1.88
P-23	J-20	J-21	364.62	11.43	0.00	2.33	2.82	2.82	2.82
P-24	J-22	J-19	527.42	2.38	0.00	2.15	1.88	1.88	1.88
P-25	J-20	J-28	162.80	10.25	0.00	1.85	2.57	2.57	2.57
P-26	J-42	J-24	527.42	4.69	0.00	3.37	5.59	5.59	5.59
P-27	J-24	J-23	527.42	0.20	0.00	3.37	5.59	5.59	5.59
P-28	J-25	J-42	162.80	21.37	0.00	1.85	2.57	2.57	2.57
P-29	J-26	J-25	162.80	18.82	0.00	1.85	2.57	2.57	2.57
P-3	J-2	I-Pump-2	527.42	11.47	0.00	2.15	1.88	1.88	1.88
P-30	J-27	J-26	162.80	8.89	0.00	1.85	2.57	2.57	2.57
P-31	J-28	J-27	162.80	9.71	0.00	1.85	2.57	2.57	2.57
P-32	J-21	J-34	364.62	8.85	0.00	2.33	2.82	2.82	2.82
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2119.30	0.14	0.00	1.50	0.35	0.35	0.35
P-35	I-Pump-3	R-2	-2119.30	0.02	0.00	1.50	0.35	0.35	0.35
P-36	J-30	J-29	2119.30	4.31	0.00	3.38	2.51	2.51	2.51
P-37	J-29	J-31	2119.30	15.32	0.00	3.38	2.51	2.51	2.51
P-38	J-31	J-33	2119.30	11.64	0.00	3.38	2.51	2.51	2.51
P-39	J-33	J-32	2119.30	2.43	0.00	3.38	2.51	2.51	2.51
P-4	O-Pump-2	J-9	527.42	2.52	0.00	2.15	1.88	1.88	1.88
P-40	J-32	J-35	2119.30	20.49	0.00	3.38	2.51	2.51	2.51
P-41	J-35	J-2	527.42	0.58	0.00	0.84	0.19	0.19	0.19
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23	PERSIMMON	527.42	0.01	0.00	2.15	1.88	1.88	1.88
P-45	J-34	J-39	364.62	1.79	0.00	2.33	2.82	2.82	2.82
P-46	J-39	J-40	364.62	9.52	0.00	2.33	2.82	2.82	2.82
P-47	J-40	J-41	364.62	18.97	0.00	2.33	2.82	2.82	2.82
P-48	J-41	J-43	364.62	13.44	0.00	2.33	2.82	2.82	2.82
P-49	J-43	J-42	364.62	5.04	0.00	2.33	2.82	2.82	2.82
P-5	J-4	J-3	527.42	6.23	0.00	2.15	1.88	1.88	1.88
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	527.42	7.29	0.00	2.15	1.88	1.88	1.88
P-7	J-6	J-5	527.42	3.05	0.00	2.15	1.88	1.88	1.88
P-8	J-7	J-6	527.42	5.86	0.00	2.15	1.88	1.88	1.88
P-9	J-8	J-7	527.42	2.57	0.00	2.15	1.88	1.88	1.88

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMENTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
(ft)	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed

ump-2	527.42	95.97	327.91	231.9	75.00	31.	1.5	46.1	**	**
Pump-3	2119.30	9.98	617.36	607.4	75.00	325.	16.1	193.8	**	**

43.1

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOUD WILL		----	1103.01	998.50	104.51	45.29
COUNTY HOU		----	1144.38	1009.00	135.38	58.66
J-1		0.00	1102.44	1028.00	74.44	32.26
J-10		0.00	1144.38	1020.00	124.38	53.90
J-11		0.00	1144.38	960.00	184.38	79.90
J-12		0.00	1144.38	785.00	359.38	155.73
J-13		0.00	1102.44	950.00	152.44	66.06
J-14		0.00	1102.44	780.00	322.44	139.72
J-15		0.00	1102.44	780.00	322.44	139.72
J-16		0.00	1102.44	915.00	187.44	81.22
J-17		0.00	1102.44	850.00	252.44	109.39
J-18		0.00	1102.44	990.00	112.44	48.72
J-19		0.00	1282.14	1030.00	252.14	109.26
J-2		0.00	1102.44	1000.00	102.44	44.39
J-20		0.00	1280.69	1050.00	230.69	99.97
J-21		0.00	1269.26	1050.00	219.26	95.01
J-22		0.00	1284.52	1005.00	279.52	121.13
J-23		0.00	1206.77	1090.00	116.77	50.60
J-24		0.00	1206.97	1090.00	116.97	50.68
J-25		0.00	1233.03	1060.00	173.03	74.98
J-26		0.00	1251.85	1020.00	231.85	100.47
J-27		0.00	1260.73	1070.00	190.73	82.65
J-28		0.00	1270.44	1050.00	220.44	95.53
J-29		0.00	1152.91	530.00	622.91	269.93
J-3		0.00	1286.66	1025.00	261.66	113.38
J-30		0.00	1157.22	530.00	627.22	271.80
J-31		0.00	1137.59	565.00	572.59	248.12
J-32		0.00	1123.52	900.00	223.52	96.86
J-33		0.00	1125.95	860.00	265.95	115.25
J-34		0.00	1260.41			
J-35		0.00	1103.02	1000.00	103.02	44.64
J-36		72.00 (0.48)	1144.37	1009.00	135.37	58.66
J-37		99.84 (0.48)	1103.01	998.50	104.51	45.29
J-38		157.44 (0.48)	1206.76			
J-39		0.00	1258.63	1070.00	188.63	81.74
J-4		0.00	1292.89	1010.00	282.89	122.58
J-40		0.00	1249.10	1040.00	209.10	90.61
J-41		0.00	1230.13	1070.00	160.13	69.39
J-42		0.00	1211.66	1130.00	81.66	35.39
J-43		0.00	1216.70	1130.00	86.70	37.57
J-5		0.00	1300.18	1040.00	260.18	112.74
J-6		0.00	1303.23	1050.00	253.23	109.73
J-7		0.00	1309.08	1000.00	309.08	133.94
J-8		0.00	1311.65	1021.00	290.65	125.95
J-9		0.00	1320.39	1040.00	280.39	121.50
PERSIMMON		----	1206.76	1115.00	91.76	39.76
I-Pump-1		0.00	1102.44			
O-Pump-2		0.00	1322.91	995.00	327.91	142.09
I-Pump-3		0.00	549.98	540.00	9.98	4.33
R-2		----	550.00			
O-Pump-1		0.00	1144.38			
I-Pump-2		0.00	1090.97	995.00	95.97	41.59
O-Pump-3		0.00	1157.36	540.00	617.36	267.52

MAXIMUM AND MINIMUM VALUES

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	271.80	I-Pump-3	4.33
J-29	269.93	J-1	32.26
O-Pump-3	267.52	J-42	35.39

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-36	3.38	P-43	0.16
P-37	3.38	P-42	0.46
P-38	3.38	P-50	0.64

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.59	P-43	0.01
P-26	5.59	P-42	0.14
P-23	2.82	P-41	0.19

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.59	P-43	0.01
P-26	5.59	P-42	0.14
P-23	2.82	P-41	0.19

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1492.04	
COUNTY HOUS	72.00	
PERSIMMON	-369.98	
R-2	2119.30	

NET SYSTEM INFLOW = 2191.30
 NET SYSTEM OUTFLOW = -1862.02
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 41.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
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CLOYD WILLI (1)	1492.04	1103.01	18.01	331926.	53.0	FILLING	22.87
COUNTY HOUS (1)	-72.00	1144.38	26.38	387474.	85.1	DRAINING	26.08
PERSIMMON (1)	369.98	1206.76	16.76	182102.	64.5	FILLING	18.81

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 42.000

TIME FROM INITIATION OF EPS = 42.0000 HOURS (1800 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS		FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
	#1	#2						
P-1	CLOYD WILL	J-35	-1573.72	0.01	0.00	1.12	0.20	0.20
P-10	J-9	J-8	530.65	8.84	0.00	2.17	1.91	1.91
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	530.65	2.16	0.00	2.17	1.91	1.91
P-22	J-19	J-20	530.65	1.47	0.00	2.17	1.91	1.91
P-23	J-20	J-21	366.85	11.56	0.00	2.34	2.85	2.85
P-24	J-22	J-19	530.65	2.41	0.00	2.17	1.91	1.91
P-25	J-20	J-28	163.80	10.36	0.00	1.86	2.60	2.60
P-26	J-42	J-24	530.65	4.75	0.00	3.39	5.65	5.65
P-27	J-24	J-23	530.65	0.20	0.00	3.39	5.65	5.65
P-28	J-25	J-42	163.80	21.61	0.00	1.86	2.60	2.60
P-29	J-26	J-25	163.80	19.03	0.00	1.86	2.60	2.60
P-3	J-2	I-Pump-2	530.65	11.60	0.00	2.17	1.91	1.91
P-30	J-27	J-26	163.80	8.99	0.00	1.86	2.60	2.60
P-31	J-28	J-27	163.80	9.82	0.00	1.86	2.60	2.60
P-32	J-21	J-34	366.85	8.95	0.00	2.34	2.85	2.85
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2104.37	0.13	0.00	1.49	0.34	0.34
P-35	I-Pump-3	R-2	-2104.37	0.02	0.00	1.49	0.34	0.34
P-36	J-30	J-29	2104.37	4.25	0.00	3.36	2.48	2.48
P-37	J-29	J-31	2104.37	15.12	0.00	3.36	2.48	2.48
P-38	J-31	J-33	2104.37	11.49	0.00	3.36	2.48	2.48
P-39	J-33	J-32	2104.37	2.40	0.00	3.36	2.48	2.48
P-4	O-Pump-2	J-9	530.65	2.55	0.00	2.17	1.91	1.91
P-40	J-32	J-35	2104.37	20.23	0.00	3.36	2.48	2.48
P-41	J-35	J-2	530.65	0.59	0.00	0.85	0.19	0.19
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	530.65	0.01	0.00	2.17	1.91	1.91
P-45	J-34	J-39	366.85	1.81	0.00	2.34	2.85	2.85
P-46	J-39	J-40	366.85	9.63	0.00	2.34	2.85	2.85
P-47	J-40	J-41	366.85	19.19	0.00	2.34	2.85	2.85
P-48	J-41	J-43	366.85	13.59	0.00	2.34	2.85	2.85

P-49	J-43	J-42	366.85	5.09	0.00	2.34	2.85	2.85
P-5	J-4	J-3	530.65	6.30	0.00	2.17	1.91	1.91
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	530.65	7.37	0.00	2.17	1.91	1.91
P-7	J-6	J-5	530.65	3.08	0.00	2.17	1.91	1.91
P-8	J-7	J-6	530.65	5.92	0.00	2.17	1.91	1.91
P-9	J-8	J-7	530.65	2.60	0.00	2.17	1.91	1.91

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC- ENCY	USEFUL POWER	INCREM TL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											

Device "Pump-1" is closed

133.8	Pump-2	530.65	100.69	331.27	230.6	75.00	31.	1.5	47.6	**	**
43.1	Pump-3	2104.37	9.98	621.51	611.5	75.00	325.	16.2	210.0	**	**

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1107.87	998.50	109.37	47.39
COUNTY HOU		----	1144.08	1009.00	135.08	58.54
J-1		0.00	1107.29	1028.00	79.29	34.36
J-10		0.00	1144.08	1020.00	124.08	53.77
J-11		0.00	1144.08	960.00	184.08	79.77
J-12		0.00	1144.08	785.00	359.08	155.60
J-13		0.00	1107.29	950.00	157.29	68.16
J-14		0.00	1107.29	780.00	327.29	141.83
J-15		0.00	1107.29	780.00	327.29	141.83
J-16		0.00	1107.29	915.00	192.29	83.33
J-17		0.00	1107.29	850.00	257.29	111.49
J-18		0.00	1107.29	990.00	117.29	50.83
J-19		0.00	1285.04	1030.00	255.04	110.52
J-2		0.00	1107.29	1000.00	107.29	46.49
J-20		0.00	1283.58	1050.00	233.58	101.22
J-21		0.00	1272.01	1050.00	222.01	96.21
J-22		0.00	1287.45	1005.00	282.45	122.39
J-23		0.00	1208.81	1090.00	118.81	51.49
J-24		0.00	1209.01	1090.00	119.01	51.57
J-25		0.00	1235.37	1060.00	175.37	75.99
J-26		0.00	1254.40	1020.00	234.40	101.57
J-27		0.00	1263.39	1070.00	193.39	83.80
J-28		0.00	1273.21	1050.00	223.21	96.72
J-29		0.00	1157.12	530.00	627.12	271.75
J-3		0.00	1289.61	1025.00	264.61	114.66
J-30		0.00	1161.38	530.00	631.38	273.60
J-31		0.00	1142.00	565.00	577.00	250.03
J-32		0.00	1128.11	900.00	228.11	98.85
J-33		0.00	1130.51	860.00	270.51	117.22
J-34		0.00	1263.07			

J-35	0.00	1107.88	1000.00	107.88	46.75
J-36	72.00 (0.48)	1144.08	1009.00	135.08	58.53
J-37	99.84 (0.48)	1107.87	998.50	109.37	47.39
J-38	157.44 (0.48)	1208.80			
J-39	0.00	1261.26	1070.00	191.26	82.88
J-4	0.00	1295.91	1010.00	285.91	123.89
J-40	0.00	1251.63	1040.00	211.63	91.71
J-41	0.00	1232.44	1070.00	162.44	70.39
J-42	0.00	1213.76	1130.00	83.76	36.30
J-43	0.00	1218.85	1130.00	88.85	38.50
J-5	0.00	1303.28	1040.00	263.28	114.09
J-6	0.00	1306.36	1050.00	256.36	111.09
J-7	0.00	1312.29	1000.00	312.29	135.32
J-8	0.00	1314.89	1021.00	293.89	127.35
J-9	0.00	1323.72	1040.00	283.72	122.95
PERSIMMON	----	1208.81	1115.00	93.81	40.65
I-Pump-1	0.00	1107.29			
O-Pump-2	0.00	1326.27	995.00	331.27	143.55
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1144.08			
I-Pump-2	0.00	1095.69	995.00	100.69	43.63
O-Pump-3	0.00	1161.51	540.00	621.51	269.32

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	273.60	I-Pump-3	4.33
J-29	271.75	J-1	34.36
O-Pump-3	269.32	J-42	36.30

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.39	P-43	0.16
P-27	3.39	P-42	0.46
P-36	3.36	P-50	0.64

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.65	P-43	0.01
P-26	5.65	P-42	0.14
P-23	2.85	P-41	0.19

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.65	P-43	0.01
P-26	5.65	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

(+)
(-) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES

OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1473.88	
COUNTY HOUS	72.00	
PERSIMMON	-373.21	
R-2	2104.37	

NET SYSTEM INFLOW = 2176.37

NET SYSTEM OUTFLOW = -1847.09

NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 42.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1473.88	1107.87	22.87	421448.	67.3	FILLING	27.67
COUNTY HOUS (1)	-72.00	1144.08	26.08	383154.	84.1	DRAINING	25.79
PERSIMMON (1)	373.21	1208.81	18.81	204301.	72.3	FILLING	20.87

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 43.000

TIME FROM INITIATION OF EPS = 43.0000 HOURS (1900 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1555.66	0.01	0.00	1.10	0.20	0.20
P-10	J-9	J-8	533.76	8.93	0.00	2.18	1.93	1.93
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	533.76	2.18	0.00	2.18	1.93	1.93

COUNTY	HOU					
	J-1	0.00	1112.08	1028.00	84.08	36.44
	J-10	0.00	1143.79	1020.00	123.79	53.64
	J-11	0.00	1143.79	960.00	183.79	79.64
	J-12	0.00	1143.79	785.00	358.79	155.48
	J-13	0.00	1112.08	950.00	162.08	70.24
	J-14	0.00	1112.08	780.00	332.08	143.90
	J-15	0.00	1112.08	780.00	332.08	143.90
	J-16	0.00	1112.08	915.00	197.08	85.40
	J-17	0.00	1112.08	850.00	262.08	113.57
	J-18	0.00	1112.08	990.00	122.08	52.90
	J-19	0.00	1287.93	1030.00	257.93	111.77
	J-2	0.00	1112.08	1000.00	112.08	48.57
	J-20	0.00	1286.45	1050.00	236.45	102.46
	J-21	0.00	1274.76	1050.00	224.76	97.40
	J-22	0.00	1290.37	1005.00	285.37	123.66
	J-23	0.00	1210.87	1090.00	120.87	52.38
	J-24	0.00	1211.07	1090.00	121.07	52.47
	J-25	0.00	1237.72	1060.00	177.72	77.01
	J-26	0.00	1256.96	1020.00	236.96	102.68
	J-27	0.00	1266.04	1070.00	196.04	84.95
	J-28	0.00	1275.97	1050.00	225.97	97.92
	J-29	0.00	1161.28	530.00	631.28	273.55
	J-3	0.00	1292.55	1025.00	267.55	115.94
	J-30	0.00	1165.47	530.00	635.47	275.37
	J-31	0.00	1146.35	565.00	581.35	251.92
	J-32	0.00	1132.64	900.00	232.64	100.81
	J-33	0.00	1135.01	860.00	275.01	119.17
	J-34	0.00	1265.72			
	J-35	0.00	1112.68	1000.00	112.68	48.83
	J-36	72.00 (0.48)	1143.78	1009.00	134.78	58.41
	J-37	99.84 (0.48)	1112.67	998.50	114.17	49.47
	J-38	157.44 (0.48)	1210.86			
	J-39	0.00	1263.89	1070.00	193.89	84.02
	J-4	0.00	1298.92	1010.00	288.92	125.20
	J-40	0.00	1254.15	1040.00	214.15	92.80
	J-41	0.00	1234.76	1070.00	164.76	71.40
	J-42	0.00	1215.87	1130.00	85.87	37.21
	J-43	0.00	1221.02	1130.00	91.02	39.44
	J-5	0.00	1306.37	1040.00	266.37	115.43
	J-6	0.00	1309.49	1050.00	259.49	112.44
	J-7	0.00	1315.47	1000.00	315.47	136.71
	J-8	0.00	1318.10	1021.00	297.10	128.74
	J-9	0.00	1327.03	1040.00	287.03	124.38
PERSIMMON		----	1210.87	1115.00	95.87	41.54
	I-Pump-1	0.00	1112.08			
	O-Pump-2	0.00	1329.61	995.00	334.61	145.00
	I-Pump-3	0.00	549.98	540.00	9.98	4.33
	R-2	----	550.00			
	O-Pump-1	0.00	1143.79			
	I-Pump-2	0.00	1100.35	995.00	105.35	45.65
	O-Pump-3	0.00	1165.61	540.00	625.61	271.10

MAXIMUM AND MINIMUM VALUES

PRESSES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	275.37	I-Pump-3	4.33
J-29	273.55	J-1	36.44
O-Pump-3	271.10	J-42	37.21

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.41	P-43	0.16
P-27	3.41	P-42	0.46
P-36	3.33	P-50	0.64

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.71	P-43	0.01
P-26	5.71	P-42	0.14
P-23	2.88	P-41	0.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.71	P-43	0.01
P-26	5.71	P-42	0.14
P-23	2.88	P-41	0.20

SUMMARY OF INFLOWS AND OUTFLOWS

(.) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	-1455.82	
COUNTY HOUS	72.00	
PERSIMMON	-376.32	
R-2	2089.41	

NET SYSTEM INFLOW = 2161.41
 NET SYSTEM OUTFLOW = -1832.13
 NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 43.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	1455.82	1112.67	27.67	509881.	81.4	FILLING	32.41
COUNTY HOUS (1)	-72.00	1143.79	25.79	378834.	83.2	DRAINING	25.50
PERSIMMON (1)	376.32	1210.87	20.87	226694.	80.3	FILLING	22.94

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

TIME FROM INITIATION OF EPS = 44.0000 HOURS (2000 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1	NODE NUMBERS #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL	J-35	-1537.66	0.01	0.00	1.09	0.19	0.19
P-10	J-9	J-8	536.75	9.02	0.00	2.19	1.95	1.95
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	536.75	2.20	0.00	2.19	1.95	1.95
P-22	J-19	J-20	536.75	1.50	0.00	2.19	1.95	1.95
P-23	J-20	J-21	371.07	11.81	0.00	2.37	2.91	2.91
P-24	J-22	J-19	536.75	2.46	0.00	2.19	1.95	1.95
P-25	J-20	J-28	165.68	10.59	0.00	1.88	2.66	2.66
P-26	J-42	J-24	536.75	4.85	0.00	3.43	5.77	5.77
P-27	J-24	J-23	536.75	0.20	0.00	3.43	5.77	5.77
P-28	J-25	J-42	165.68	22.08	0.00	1.88	2.66	2.66
P-29	J-26	J-25	165.68	19.44	0.00	1.88	2.66	2.66
P-3	J-2	I-Pump-2	536.75	11.85	0.00	2.19	1.95	1.95
P-30	J-27	J-26	165.68	9.18	0.00	1.88	2.66	2.66
P-31	J-28	J-27	165.68	10.03	0.00	1.88	2.66	2.66
P-32	J-21	J-34	371.07	9.14	0.00	2.37	2.91	2.91
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	2074.42	0.13	0.00	1.47	0.33	0.33
P-35	I-Pump-3	R-2	-2074.42	0.02	0.00	1.47	0.33	0.33
P-36	J-30	J-29	2074.42	4.14	0.00	3.31	2.41	2.41
P-37	J-29	J-31	2074.42	14.73	0.00	3.31	2.41	2.41
P-38	J-31	J-33	2074.42	11.19	0.00	3.31	2.41	2.41
P-39	J-33	J-32	2074.42	2.34	0.00	3.31	2.41	2.41
P-4	O-Pump-2	J-9	536.75	2.60	0.00	2.19	1.95	1.95
P-40	J-32	J-35	2074.42	19.70	0.00	3.31	2.41	2.41
P-41	J-35	J-2	536.75	0.60	0.00	0.86	0.20	0.20
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	536.75	0.01	0.00	2.19	1.95	1.95
P-45	J-34	J-39	371.07	1.84	0.00	2.37	2.91	2.91
P-46	J-39	J-40	371.07	9.84	0.00	2.37	2.91	2.91
P-47	J-40	J-41	371.07	19.60	0.00	2.37	2.91	2.91
P-48	J-41	J-43	371.07	13.88	0.00	2.37	2.91	2.91
P-49	J-43	J-42	371.07	5.20	0.00	2.37	2.91	2.91
P-5	J-4	J-3	536.75	6.43	0.00	2.19	1.95	1.95
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	536.75	7.53	0.00	2.19	1.95	1.95
P-7	J-6	J-5	536.75	3.15	0.00	2.19	1.95	1.95
P-8	J-7	J-6	536.75	6.05	0.00	2.19	1.95	1.95
P-9	J-8	J-7	536.75	2.65	0.00	2.19	1.95	1.95

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)									

 Device "Pump-1" is closed
 Pump-2 536.75 109.97 337.92 228.0 75.00 31. 1.5 50.7 ** **
 143.1
 Pump-3 2074.42 9.98 629.64 619.7 75.00 325. 16.1 242.3 ** **
 43.1

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1117.41	998.50	118.91	51.53
COUNTY HOU		----	1143.50	1009.00	134.50	58.28
J-1		0.00	1116.82	1028.00	88.82	38.49
J-10		0.00	1143.50	1020.00	123.50	53.52
J-11		0.00	1143.50	960.00	183.50	79.52
J-12		0.00	1143.50	785.00	358.50	155.35
J-13		0.00	1116.82	950.00	166.82	72.29
J-14		0.00	1116.82	780.00	336.82	145.95
J-15		0.00	1116.82	780.00	336.82	145.95
J-16		0.00	1116.82	915.00	201.82	87.45
J-17		0.00	1116.82	850.00	266.82	115.62
J-18		0.00	1116.82	990.00	126.82	54.95
J-19		0.00	1290.82	1030.00	260.82	113.02
J-2		0.00	1116.82	1000.00	116.82	50.62
J-20		0.00	1289.32	1050.00	239.32	103.70
J-21		0.00	1277.51	1050.00	227.51	98.59
J-22		0.00	1293.27	1005.00	288.27	124.92
J-23		0.00	1212.95	1090.00	122.95	53.28
J-24		0.00	1213.16	1090.00	123.16	53.37
J-25		0.00	1240.08	1060.00	180.08	78.04
J-26		0.00	1259.52	1020.00	239.52	103.79
J-27		0.00	1268.70	1070.00	198.70	86.10
J-28		0.00	1278.73	1050.00	228.73	99.12
J-29		0.00	1165.37	530.00	635.37	275.33
J-3		0.00	1295.48	1025.00	270.48	117.21
J-30		0.00	1169.51	530.00	639.51	277.12
J-31		0.00	1150.65	565.00	585.65	253.78
J-32		0.00	1137.12	900.00	237.12	102.75
J-33		0.00	1139.46	860.00	279.46	121.10
J-34		0.00	1268.37			
J-35		0.00	1117.42	1000.00	117.42	50.88
J-36		72.00 (0.48)	1143.49	1009.00	134.49	58.28
J-37		99.84 (0.48)	1117.41	998.50	118.91	51.53
J-38		157.44 (0.48)	1212.94			
J-39		0.00	1266.52	1070.00	196.52	85.16
J-4		0.00	1301.91	1010.00	291.91	126.50
J-40		0.00	1256.68	1040.00	216.68	93.90
J-41		0.00	1237.09	1070.00	167.09	72.40
J-42		0.00	1218.00	1130.00	88.00	38.14

J-43	0.00	1223.21	1130.00	93.21	40.39
J-5	0.00	1309.44	1040.00	269.44	116.76
J-6	0.00	1312.59	1050.00	262.59	113.79
J-7	0.00	1318.64	1000.00	318.64	138.08
J-8	0.00	1321.30	1021.00	300.30	130.13
J-9	0.00	1330.32	1040.00	290.32	125.81
PERSIMMON	----	1212.94	1115.00	97.94	42.44
Pump-1	0.00	1116.82			
O-Pump-2	0.00	1332.92	995.00	337.92	146.43
I-Pump-3	0.00	549.98	540.00	9.98	4.33
R-2	----	550.00			
O-Pump-1	0.00	1143.50			
I-Pump-2	0.00	1104.97	995.00	109.97	47.65
O-Pump-3	0.00	1169.64	540.00	629.64	272.85

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-30	277.12	I-Pump-3	4.33
J-29	275.33	J-42	38.14
O-Pump-3	272.85	J-1	38.49

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.43	P-43	0.16
P-27	3.43	P-42	0.46
P-36	3.31	P-50	0.64

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.77	P-43	0.01
P-26	5.77	P-42	0.14
P-46	2.91	P-1	0.19

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.77	P-43	0.01
P-26	5.77	P-42	0.14
P-46	2.91	P-1	0.19

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	536.74	2.60	0.00	2.19	1.95	1.95	1.95
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	536.74	0.60	0.00	0.86	0.20	0.20	0.20
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	0.01
P-44	J-23 PERSIMMON		536.74	0.01	0.00	2.19	1.95	1.95	1.95
P-45	J-34	J-39	371.06	1.84	0.00	2.37	2.91	2.91	2.91
P-46	J-39	J-40	371.06	9.84	0.00	2.37	2.91	2.91	2.91
P-47	J-40	J-41	371.06	19.60	0.00	2.37	2.91	2.91	2.91
P-48	J-41	J-43	371.06	13.88	0.00	2.37	2.91	2.91	2.91
P-49	J-43	J-42	371.06	5.20	0.00	2.37	2.91	2.91	2.91
P-5	J-4	J-3	536.74	6.43	0.00	2.19	1.95	1.95	1.95
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	536.74	7.53	0.00	2.19	1.95	1.95	1.95
P-7	J-6	J-5	536.74	3.15	0.00	2.19	1.95	1.95	1.95
P-8	J-7	J-6	536.74	6.05	0.00	2.19	1.95	1.95	1.95
P-9	J-8	J-7	536.74	2.65	0.00	2.19	1.95	1.95	1.95

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREM TL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed

Pump-2	536.74	109.96	337.92	228.0	75.00	31.	1.5	52.2	**	**
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143.1

Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1117.41	998.50	118.91	51.53
COUNTY HOU		----	1143.50	1009.00	134.50	58.28
J-1		0.00	1116.81	1028.00	88.81	38.48
J-10		0.00	1143.50	1020.00	123.50	53.52
J-11		0.00	1143.50	960.00	183.50	79.52
J-12		0.00	1143.50	785.00	358.50	155.35
J-13		0.00	1116.81	950.00	166.81	72.28
J-14		0.00	1116.81	780.00	336.81	145.95
J-15		0.00	1116.81	780.00	336.81	145.95
J-16		0.00	1116.81	915.00	201.81	87.45
J-17		0.00	1116.81	850.00	266.81	115.62
J-18		0.00	1116.81	990.00	126.81	54.95
J-19		0.00	1290.81	1030.00	260.81	113.02
J-2		0.00	1116.81	1000.00	116.81	50.62
J-20		0.00	1289.31	1050.00	239.31	103.70

J-21	0.00	1277.50	1050.00	227.50	98.58
J-22	0.00	1293.27	1005.00	288.27	124.92
J-23	0.00	1212.95	1090.00	122.95	53.28
J-24	0.00	1213.16	1090.00	123.16	53.37
J-25	0.00	1240.08	1060.00	180.08	78.03
J-26	0.00	1259.52	1020.00	239.52	103.79
J-27	0.00	1268.69	1070.00	198.69	86.10
J-28	0.00	1278.73	1050.00	228.73	99.11
J-29	0.00	1117.41	530.00	587.41	254.54
J-3	0.00	1295.47	1025.00	270.47	117.21
J-30	0.00	1117.41	530.00	587.41	254.54
J-31	0.00	1117.41	565.00	552.41	239.38
J-32	0.00	1117.41	900.00	217.41	94.21
J-33	0.00	1117.41	860.00	257.41	111.54
J-34	0.00	1268.37			
J-35	0.00	1117.41	1000.00	117.41	50.88
J-36	72.00 (0.48)	1143.49	1009.00	134.49	58.28
J-37	99.84 (0.48)	1117.41	998.50	118.91	51.53
J-38	157.44 (0.48)	1212.94			
J-39	0.00	1266.52	1070.00	196.52	85.16
J-4	0.00	1301.91	1010.00	291.91	126.49
J-40	0.00	1256.68	1040.00	216.68	93.90
J-41	0.00	1237.08	1070.00	167.08	72.40
J-42	0.00	1218.00	1130.00	88.00	38.14
J-43	0.00	1223.21	1130.00	93.21	40.39
J-5	0.00	1309.44	1040.00	269.44	116.76
J-6	0.00	1312.59	1050.00	262.59	113.79
J-7	0.00	1318.64	1000.00	318.64	138.08
J-8	0.00	1321.29	1021.00	300.29	130.13
J-9	0.00	1330.32	1040.00	290.32	125.80
PERSIMMON	----	1212.94	1115.00	97.94	42.44
I-Pump-1	0.00	1116.81			
O-Pump-2	0.00	1332.92	995.00	337.92	146.43
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
Pump-1	0.00	1143.50			
I-Pump-2	0.00	1104.96	995.00	109.96	47.65
O-Pump-3	0.00	1117.41	540.00	577.41	250.21

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	254.54	I-Pump-3	4.33
J-30	254.54	J-42	38.14
O-Pump-3	250.21	J-1	38.48

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.43	P-43	0.16
P-27	3.43	P-1	0.38
P-23	2.37	P-42	0.46

H L + M L / 1 0 0 0

PIPE	MAXIMUM	PIPE	MINIMUM
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NUMBER HL+ML/1000
(ft/ft)

P-27 5.77
P-26 5.77
P-32 2.91

NUMBER HL+ML/1000
(ft/ft)

P-43 0.01
P-1 0.03
P-42 0.14

HL / 1000

PIPE NUMBER MAXIMUM HL/1000
(ft/ft)

P-27 5.77
P-26 5.77
P-32 2.91

PIPE NUMBER MINIMUM HL/1000
(ft/ft)

P-43 0.01
P-1 0.03
P-42 0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	636.58	
COUNTY HOUS	72.00	
PERSIMMON	-379.30	
R-2	0.00	

NET SYSTEM INFLOW = 708.58
NET SYSTEM OUTFLOW = -379.30
NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 44.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-636.58	1117.41	32.41	597230.	95.3	DRAINING	30.34
COUNTY HOUS (1)	-72.00	1143.50	25.50	374514.	82.2	DRAINING	25.20
PERSIMMON (1)	379.30	1212.94	22.94	249273.	88.2	FILLING	25.04

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 45.000

TIME FROM INITIATION OF EPS = 45.0000 HOURS (2100 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
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P-1	CLOYD WILL	J-35	532.04	0.00	0.00	0.38	0.03	0.03
P-10	J-9	J-8	532.04	8.88	0.00	2.17	1.92	1.92
P-11	J-1	J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10	COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11	J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12	J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13	I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14	J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15	J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16	J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17	J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1	J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18	J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3	J-22	532.04	2.17	0.00	2.17	1.92	1.92
P-22	J-19	J-20	532.04	1.48	0.00	2.17	1.92	1.92
P-23	J-20	J-21	367.81	11.62	0.00	2.35	2.87	2.87
P-24	J-22	J-19	532.04	2.42	0.00	2.17	1.92	1.92
P-25	J-20	J-28	164.23	10.41	0.00	1.86	2.61	2.61
P-26	J-42	J-24	532.04	4.77	0.00	3.40	5.68	5.68
P-27	J-24	J-23	532.04	0.20	0.00	3.40	5.68	5.68
P-28	J-25	J-42	164.23	21.72	0.00	1.86	2.61	2.61
P-29	J-26	J-25	164.23	19.12	0.00	1.86	2.61	2.61
P-3	J-2	I-Pump-2	532.04	11.66	0.00	2.17	1.92	1.92
P-30	J-27	J-26	164.23	9.03	0.00	1.86	2.61	2.61
P-31	J-28	J-27	164.23	9.87	0.00	1.86	2.61	2.61
P-32	J-21	J-34	367.81	8.99	0.00	2.35	2.87	2.87
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	532.04	2.56	0.00	2.17	1.92	1.92
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	532.04	0.59	0.00	0.85	0.19	0.19
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	532.04	0.01	0.00	2.17	1.92	1.92
P-45	J-34	J-39	367.81	1.81	0.00	2.35	2.87	2.87
P-46	J-39	J-40	367.81	9.68	0.00	2.35	2.87	2.87
P-47	J-40	J-41	367.81	19.28	0.00	2.35	2.87	2.87
P-48	J-41	J-43	367.81	13.65	0.00	2.35	2.87	2.87
P-49	J-43	J-42	367.81	5.12	0.00	2.35	2.87	2.87
P-5	J-4	J-3	532.04	6.33	0.00	2.17	1.92	1.92
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	532.04	7.41	0.00	2.17	1.92	1.92
P-7	J-6	J-5	532.04	3.10	0.00	2.17	1.92	1.92
P-8	J-7	J-6	532.04	5.95	0.00	2.17	1.92	1.92
P-9	J-8	J-7	532.04	2.61	0.00	2.17	1.92	1.92

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREMTL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		

Device "Pump-1" is closed

Pump-2 532.04 108.08 338.07 230.0 75.00 31. 1.5 53.7

** **

141.2

Device "Pump-3" is closed

D NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1115.34	998.50	116.84	50.63
COUNTY HOU		----	1143.20	1009.00	134.20	58.15
J-1		0.00	1114.74	1028.00	86.74	37.59
J-10		0.00	1143.20	1020.00	123.20	53.39
J-11		0.00	1143.20	960.00	183.20	79.39
J-12		0.00	1143.20	785.00	358.20	155.22
J-13		0.00	1114.74	950.00	164.74	71.39
J-14		0.00	1114.74	780.00	334.74	145.06
J-15		0.00	1114.74	780.00	334.74	145.06
J-16		0.00	1114.74	915.00	199.74	86.56
J-17		0.00	1114.74	850.00	264.74	114.72
J-18		0.00	1114.74	990.00	124.74	54.06
J-19		0.00	1291.65	1030.00	261.65	113.38
J-2		0.00	1114.74	1000.00	114.74	49.72
J-20		0.00	1290.17	1050.00	240.17	104.07
J-21		0.00	1278.55	1050.00	228.55	99.04
J-22		0.00	1294.07	1005.00	289.07	125.26
J-23		0.00	1215.05	1090.00	125.05	54.19
J-24		0.00	1215.25	1090.00	125.25	54.27
J-25		0.00	1241.74	1060.00	181.74	78.75
J-26		0.00	1260.86	1020.00	240.86	104.37
J-27		0.00	1269.89	1070.00	199.89	86.62
J-28		0.00	1279.76	1050.00	229.76	99.56
J-29		0.00	1115.34	530.00	585.34	253.65
J-3		0.00	1296.23	1025.00	271.23	117.54
J-30		0.00	1115.34	530.00	585.34	253.65
J-31		0.00	1115.34	565.00	550.34	238.48
J-32		0.00	1115.34	900.00	215.34	93.31
J-33		0.00	1115.34	860.00	255.34	110.65
J-34		0.00	1269.56			
J-35		0.00	1115.34	1000.00	115.34	49.98
J-36		72.00 (0.48)	1143.20	1009.00	134.20	58.15
J-37		99.84 (0.48)	1115.34	998.50	116.84	50.63
J-38		157.44 (0.48)	1215.04			
J-39		0.00	1267.75	1070.00	197.75	85.69
J-4		0.00	1302.57	1010.00	292.57	126.78
J-40		0.00	1258.07	1040.00	218.07	94.50
J-41		0.00	1238.79	1070.00	168.79	73.14
J-42		0.00	1220.02	1130.00	90.02	39.01
J-43		0.00	1225.13	1130.00	95.13	41.23
J-5		0.00	1309.97	1040.00	269.97	116.99
J-6		0.00	1313.07	1050.00	263.07	114.00
J-7		0.00	1319.02	1000.00	319.02	138.24
J-8		0.00	1321.64	1021.00	300.64	130.28
J-9		0.00	1330.51	1040.00	290.51	125.89
PERSIMMON		----	1215.04	1115.00	100.04	43.35
I-Pump-1		0.00	1114.74			
O-Pump-2		0.00	1333.07	995.00	338.07	146.50
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			
J-Pump-1		0.00	1143.20			
I-Pump-2		0.00	1103.08	995.00	108.08	46.84
O-Pump-3		0.00	1115.34	540.00	575.34	249.31

MAXIMUM AND MINIMUM VALUES

PRESURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.65	I-Pump-3	4.33
J-30	253.65	J-1	37.59
O-Pump-3	249.31	J-42	39.01

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-26	3.40	P-43	0.16
P-27	3.40	P-1	0.38
P-23	2.35	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-27	5.68	P-43	0.01
P-26	5.68	P-1	0.03
P-23	2.87	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-27	5.68	P-43	0.01
P-26	5.68	P-1	0.03
P-23	2.87	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	631.88	
COUNTY HOUS	72.00	
PERSIMMON	-374.60	
R-2	0.00	

NET SYSTEM INFLOW = 703.88
 NET SYSTEM OUTFLOW = -374.60
 NET SYSTEM DEMAND = 329.28

P R E S S U R E S W I T C H E S A C T I V A T E D

REFERENCE ELEMENT	STATUS	REFERENCE NODE	REFERENCE GRADE (ft)	NEXT SWITCH GRADE (ft)
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Pump-2	CLOSED	J-23	1215.05	1205.00
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Time: 45.000

TIME FROM INITIATION OF EPS = 45.0000 HOURS (2100 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E N A M E	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/ 1000 (ft/ft)	HL/ 1000 (ft/ft)
P-1	CLOYD WILL J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9 J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3 J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19 J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20 J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22 J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20 J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42 J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24 J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26 J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2 I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27 J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28 J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21 J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1 J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3 J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3 R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30 J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29 J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31 J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33 J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2 J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32 J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU J-36	72.00	0.01	0.00	0.46	0.14	0.14
P-43	CLOYD WILL J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23 PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34 J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39 J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40 J-41	0.00	0.00	0.00	0.00	0.00	0.00

P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	INLET	OUTLET	PUMP	EFFIC-	USEFUL	INCREM	TL	TOTAL	#PUMPS	#PUMPS
NAME	FLOWRATE	HEAD	HEAD	ENCY	POWER	COST	COST	PARALLEL	SERIES	
Avail.	(gpm)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)			
(ft)										

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

E N D N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE	NODE
NAME	TITLE	DEMAND	GRADE	ELEVATION	HEAD	PRESSURE
		(gpm)	(ft)	(ft)	(ft)	(psi)
CLOYD WILL		----	1115.34	998.50	116.84	50.63
COUNTY HOU		----	1143.20	1009.00	134.20	58.15
J-1		0.00	1115.34	1028.00	87.34	37.85
J-10		0.00	1143.20	1020.00	123.20	53.39
J-11		0.00	1143.20	960.00	183.20	79.39
J-12		0.00	1143.20	785.00	358.20	155.22
J-13		0.00	1115.34	950.00	165.34	71.65
J-14		0.00	1115.34	780.00	335.34	145.31
J-15		0.00	1115.34	780.00	335.34	145.31
J-16		0.00	1115.34	915.00	200.34	86.81
J-17		0.00	1115.34	850.00	265.34	114.98
J-18		0.00	1115.34	990.00	125.34	54.31
J-19		0.00	1215.04	1030.00	185.04	80.18
J-2		0.00	1115.34	1000.00	115.34	49.98
J-20		0.00	1215.04	1050.00	165.04	71.52
J-21		0.00	1215.04	1050.00	165.04	71.52
J-22		0.00	1215.04	1005.00	210.04	91.02
J-23		0.00	1215.04	1090.00	125.04	54.18
J-24		0.00	1215.04	1090.00	125.04	54.18
J-25		0.00	1215.04	1060.00	155.04	67.18
J-26		0.00	1215.04	1020.00	195.04	84.52
J-27		0.00	1215.04	1070.00	145.04	62.85
J-28		0.00	1215.04	1050.00	165.04	71.52
J-29		0.00	1115.34	530.00	585.34	253.65
J-3		0.00	1215.04	1025.00	190.04	82.35
J-30		0.00	1115.34	530.00	585.34	253.65
J-31		0.00	1115.34	565.00	550.34	238.48
J-32		0.00	1115.34	900.00	215.34	93.31
J-33		0.00	1115.34	860.00	255.34	110.65
J-34		0.00	1215.04			
J-35		0.00	1115.34	1000.00	115.34	49.98

J-36	72.00 (0.48)	1143.20	1009.00	134.20	58.15
J-37	99.84 (0.48)	1115.34	998.50	116.84	50.63
J-38	157.44 (0.48)	1215.04			
J-39	0.00	1215.04	1070.00	145.04	62.85
J-4	0.00	1215.04	1010.00	205.04	88.85
J-40	0.00	1215.04	1040.00	175.04	75.85
J-41	0.00	1215.04	1070.00	145.04	62.85
J-42	0.00	1215.04	1130.00	85.04	36.85
J-43	0.00	1215.04	1130.00	85.04	36.85
J-5	0.00	1215.04	1040.00	175.04	75.85
J-6	0.00	1215.04	1050.00	165.04	71.52
J-7	0.00	1215.04	1000.00	215.04	93.18
J-8	0.00	1215.04	1021.00	194.04	84.08
J-9	0.00	1215.04	1040.00	175.04	75.85
PERSIMMON	----	1215.04	1115.00	100.04	43.35
I-Pump-1	0.00	1115.34			
O-Pump-2	0.00	1215.04	995.00	220.04	95.35
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1143.20			
I-Pump-2	0.00	1115.34	995.00	120.34	52.15
O-Pump-3	0.00	1115.34	540.00	575.34	249.31

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.65	I-Pump-3	4.33
J-30	253.65	J-42	36.85
O-Pump-3	249.31	J-43	36.85

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

P-26	J-42	J-24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24	J-23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25	J-42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26	J-25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2	I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27	J-26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28	J-27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21	J-34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1	J-12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3	J-30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3	R-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30	J-29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29	J-31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31	J-33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33	J-32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2	J-9	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32	J-35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35	J-2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU	J-36	72.00	0.01	0.00	0.46	0.14	0.14	
P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01	
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00	
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00	
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00	
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00	
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00	
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00	
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00	
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20	
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00	
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00	
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00	
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00	

IMPLOSS ELEMENT RESULTS

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMENTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											

Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1115.01	998.50	116.51	50.49
COUNTY HOU		----	1142.91	1009.00	133.91	58.03
J-1		0.00	1115.01	1028.00	87.01	37.71
J-10		0.00	1142.91	1020.00	122.91	53.26
J-11		0.00	1142.91	960.00	182.91	79.26
J-12		0.00	1142.91	785.00	357.91	155.09
J-13		0.00	1115.01	950.00	165.01	71.51

J-14	0.00	1115.01	780.00	335.01	145.17
J-15	0.00	1115.01	780.00	335.01	145.17
J-16	0.00	1115.01	915.00	200.01	86.67
J-17	0.00	1115.01	850.00	265.01	114.84
J-18	0.00	1115.01	990.00	125.01	54.17
J-19	0.00	1214.17	1030.00	184.17	79.81
J-2	0.00	1115.01	1000.00	115.01	49.84
J-20	0.00	1214.17	1050.00	164.17	71.14
J-21	0.00	1214.17	1050.00	164.17	71.14
J-22	0.00	1214.17	1005.00	209.17	90.64
J-23	0.00	1214.17	1090.00	124.17	53.81
J-24	0.00	1214.17	1090.00	124.17	53.81
J-25	0.00	1214.17	1060.00	154.17	66.81
J-26	0.00	1214.17	1020.00	194.17	84.14
J-27	0.00	1214.17	1070.00	144.17	62.47
J-28	0.00	1214.17	1050.00	164.17	71.14
J-29	0.00	1115.01	530.00	585.01	253.51
J-3	0.00	1214.17	1025.00	189.17	81.97
J-30	0.00	1115.01	530.00	585.01	253.51
J-31	0.00	1115.01	565.00	550.01	238.34
J-32	0.00	1115.01	900.00	215.01	93.17
J-33	0.00	1115.01	860.00	255.01	110.51
J-34	0.00	1214.17			
J-35	0.00	1115.01	1000.00	115.01	49.84
J-36	72.00 (0.48)	1142.90	1009.00	133.90	58.02
J-37	99.84 (0.48)	1115.01	998.50	116.51	50.49
J-38	157.44 (0.48)	1214.17			
J-39	0.00	1214.17	1070.00	144.17	62.47
J-4	0.00	1214.17	1010.00	204.17	88.47
J-40	0.00	1214.17	1040.00	174.17	75.47
J-41	0.00	1214.17	1070.00	144.17	62.47
J-42	0.00	1214.17	1130.00	84.17	36.47
J-43	0.00	1214.17	1130.00	84.17	36.47
J-5	0.00	1214.17	1040.00	174.17	75.47
J-6	0.00	1214.17	1050.00	164.17	71.14
J-7	0.00	1214.17	1000.00	214.17	92.81
J-8	0.00	1214.17	1021.00	193.17	83.71
J-9	0.00	1214.17	1040.00	174.17	75.47
PERSIMMON	----	1214.17	1115.00	99.17	42.97
I-Pump-1	0.00	1115.01			
O-Pump-2	0.00	1214.17	995.00	219.17	94.97
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1142.91			
I-Pump-2	0.00	1115.01	995.00	120.01	52.01
O-Pump-3	0.00	1115.01	540.00	575.01	249.17

M A X I M U M A N D M I N I M U M V A L U E S

P R E S S U R E S

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.51	I-Pump-3	4.33
J-30	253.51	J-42	36.47
O-Pump-3	249.17	J-43	36.47

V E L O C I T I E S

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
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P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
 (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 46.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI (1)	-99.84	1115.01	30.01	553044.	88.3	DRAINING	29.69
COUNTY HOUS (1)	-72.00	1142.91	24.91	365874.	80.3	DRAINING	24.61
PERSIMMON (1)	-157.44	1214.17	24.17	262585.	93.0	DRAINING	23.30

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 47.000

TIME FROM INITIATION OF EPS = 47.0000 HOURS (2300 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

P I P E L I N E R E S U L T S

(gpm) (ft) (ft) (ft) (%) (Hp) (\$) (\$)

(ft)

Device "Pump-1" is closed
Device "Pump-2" is closed
Device "Pump-3" is closed

END NODE RESULTS

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1114.69	998.50	116.19	50.35
COUNTY HOU		----	1142.61	1009.00	133.61	57.90
J-1		0.00	1114.69	1028.00	86.69	37.57
J-10		0.00	1142.61	1020.00	122.61	53.13
J-11		0.00	1142.61	960.00	182.61	79.13
J-12		0.00	1142.61	785.00	357.61	154.97
J-13		0.00	1114.69	950.00	164.69	71.37
J-14		0.00	1114.69	780.00	334.69	145.03
J-15		0.00	1114.69	780.00	334.69	145.03
J-16		0.00	1114.69	915.00	199.69	86.53
J-17		0.00	1114.69	850.00	264.69	114.70
J-18		0.00	1114.69	990.00	124.69	54.03
J-19		0.00	1213.30	1030.00	183.30	79.43
J-2		0.00	1114.69	1000.00	114.69	49.70
J-20		0.00	1213.30	1050.00	163.30	70.76
J-21		0.00	1213.30	1050.00	163.30	70.76
J-22		0.00	1213.30	1005.00	208.30	90.26
J-23		0.00	1213.30	1090.00	123.30	53.43
J-24		0.00	1213.30	1090.00	123.30	53.43
J-25		0.00	1213.30	1060.00	153.30	66.43
J-26		0.00	1213.30	1020.00	193.30	83.76
J-27		0.00	1213.30	1070.00	143.30	62.10
J-28		0.00	1213.30	1050.00	163.30	70.76
J-29		0.00	1114.69	530.00	584.69	253.37
J-3		0.00	1213.30	1025.00	188.30	81.60
J-30		0.00	1114.69	530.00	584.69	253.37
J-31		0.00	1114.69	565.00	549.69	238.20
J-32		0.00	1114.69	900.00	214.69	93.03
J-33		0.00	1114.69	860.00	254.69	110.37
J-34		0.00	1213.30			
J-35		0.00	1114.69	1000.00	114.69	49.70
J-36		72.00 (0.48)	1142.61	1009.00	133.61	57.90
J-37		99.84 (0.48)	1114.69	998.50	116.19	50.35
J-38		157.44 (0.48)	1213.30			
J-39		0.00	1213.30	1070.00	143.30	62.10
J-4		0.00	1213.30	1010.00	203.30	88.10
J-40		0.00	1213.30	1040.00	173.30	75.10
J-41		0.00	1213.30	1070.00	143.30	62.10
J-42		0.00	1213.30	1130.00	83.30	36.10
J-43		0.00	1213.30	1130.00	83.30	36.10
J-5		0.00	1213.30	1040.00	173.30	75.10
J-6		0.00	1213.30	1050.00	163.30	70.76
J-7		0.00	1213.30	1000.00	213.30	92.43
J-8		0.00	1213.30	1021.00	192.30	83.33
J-9		0.00	1213.30	1040.00	173.30	75.10
SIMMON		----	1213.30	1115.00	98.30	42.60
- - Pump-1		0.00	1114.69			
O-Pump-2		0.00	1213.30	995.00	218.30	94.60
I-Pump-3		0.00	550.00	540.00	10.00	4.33
R-2		----	550.00			

O-Pump-1	0.00	1142.61			
I-Pump-2	0.00	1114.69	995.00	119.69	51.87
O-Pump-3	0.00	1114.69	540.00	574.69	249.03

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.37	I-Pump-3	4.33
J-30	253.37	J-42	36.10
O-Pump-3	249.03	J-43	36.10

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

SUMMARY OF INFLOWS AND OUTFLOWS

- (+) INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
- (-) OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 329.28

TANK STATUS REPORT (time = 47.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-99.84	1114.69	29.69	547054.	87.3	DRAINING	29.36
COUNTY HOUS(1)	-72.00	1142.61	24.61	361554.	79.4	DRAINING	24.32
PERSIMMON(1)	-157.44	1213.30	23.30	253138.	89.6	DRAINING	22.43

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Time: 48.000

TIME FROM INITIATION OF EPS = 48.0000 HOURS (2400 HOURS, DAY: 2)

RESULTS OBTAINED AFTER 3 TRIALS: ACCURACY = 0.00000

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)	HL+ML/1000 (ft/ft)	HL/1000 (ft/ft)
P-1	CLOYD WILL J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-10	J-9 J-8	0.00	0.00	0.00	0.00	0.00	0.00
P-11	J-1 J-18	0.00	0.00	0.00	0.00	0.00	0.00
P-12	J-10COUNTY HOU	0.00	0.00	0.00	0.00	0.00	0.00
P-13	J-11 J-10	0.00	0.00	0.00	0.00	0.00	0.00
P-14	J-12 J-11	0.00	0.00	0.00	0.00	0.00	0.00
P-15	J-13 I-Pump-1	0.00	0.00	0.00	0.00	0.00	0.00
P-16	J-14 J-13	0.00	0.00	0.00	0.00	0.00	0.00
P-17	J-15 J-14	0.00	0.00	0.00	0.00	0.00	0.00
P-18	J-16 J-15	0.00	0.00	0.00	0.00	0.00	0.00
P-19	J-17 J-16	0.00	0.00	0.00	0.00	0.00	0.00
P-2	J-1 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-20	J-18 J-17	0.00	0.00	0.00	0.00	0.00	0.00
P-21	J-3 J-22	0.00	0.00	0.00	0.00	0.00	0.00
P-22	J-19 J-20	0.00	0.00	0.00	0.00	0.00	0.00
P-23	J-20 J-21	0.00	0.00	0.00	0.00	0.00	0.00
P-24	J-22 J-19	0.00	0.00	0.00	0.00	0.00	0.00
P-25	J-20 J-28	0.00	0.00	0.00	0.00	0.00	0.00
P-26	J-42 J-24	0.00	0.00	0.00	0.00	0.00	0.00
P-27	J-24 J-23	0.00	0.00	0.00	0.00	0.00	0.00
P-28	J-25 J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-29	J-26 J-25	0.00	0.00	0.00	0.00	0.00	0.00
P-3	J-2 I-Pump-2	0.00	0.00	0.00	0.00	0.00	0.00
P-30	J-27 J-26	0.00	0.00	0.00	0.00	0.00	0.00
P-31	J-28 J-27	0.00	0.00	0.00	0.00	0.00	0.00
P-32	J-21 J-34	0.00	0.00	0.00	0.00	0.00	0.00
P-33	O-Pump-1 J-12	0.00	0.00	0.00	0.00	0.00	0.00
P-34	O-Pump-3 J-30	0.00	0.00	0.00	0.00	0.00	0.00
P-35	I-Pump-3 R-2	0.00	0.00	0.00	0.00	0.00	0.00
P-36	J-30 J-29	0.00	0.00	0.00	0.00	0.00	0.00
P-37	J-29 J-31	0.00	0.00	0.00	0.00	0.00	0.00
P-38	J-31 J-33	0.00	0.00	0.00	0.00	0.00	0.00
P-39	J-33 J-32	0.00	0.00	0.00	0.00	0.00	0.00
P-4	O-Pump-2 J-9	0.00	0.00	0.00	0.00	0.00	0.00
P-40	J-32 J-35	0.00	0.00	0.00	0.00	0.00	0.00
P-41	J-35 J-2	0.00	0.00	0.00	0.00	0.00	0.00
P-42	COUNTY HOU J-36	72.00	0.01	0.00	0.46	0.14	0.14

P-43	CLOYD WILL	J-37	99.84	0.00	0.00	0.16	0.01	0.01
P-44	J-23	PERSIMMON	0.00	0.00	0.00	0.00	0.00	0.00
P-45	J-34	J-39	0.00	0.00	0.00	0.00	0.00	0.00
P-46	J-39	J-40	0.00	0.00	0.00	0.00	0.00	0.00
P-47	J-40	J-41	0.00	0.00	0.00	0.00	0.00	0.00
P-48	J-41	J-43	0.00	0.00	0.00	0.00	0.00	0.00
P-49	J-43	J-42	0.00	0.00	0.00	0.00	0.00	0.00
P-5	J-4	J-3	0.00	0.00	0.00	0.00	0.00	0.00
P-50	PERSIMMON	J-38	157.44	0.00	0.00	0.64	0.20	0.20
P-6	J-5	J-4	0.00	0.00	0.00	0.00	0.00	0.00
P-7	J-6	J-5	0.00	0.00	0.00	0.00	0.00	0.00
P-8	J-7	J-6	0.00	0.00	0.00	0.00	0.00	0.00
P-9	J-8	J-7	0.00	0.00	0.00	0.00	0.00	0.00

P U M P / L O S S E L E M E N T R E S U L T S

NPSH	NAME	FLOWRATE	INLET HEAD	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY	USEFUL POWER	INCREMTL COST	TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES
Avail.		(gpm)	(ft)	(ft)	(ft)	(%)	(Hp)	(\$)	(\$)		
(ft)											

 Device "Pump-1" is closed
 Device "Pump-2" is closed
 Device "Pump-3" is closed

E D N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)	NODE PRESSURE (psi)
CLOYD WILL		----	1114.36	998.50	115.86	50.21
COUNTY HOU		----	1142.32	1009.00	133.32	57.77
J-1		0.00	1114.36	1028.00	86.36	37.42
J-10		0.00	1142.32	1020.00	122.32	53.01
J-11		0.00	1142.32	960.00	182.32	79.01
J-12		0.00	1142.32	785.00	357.32	154.84
J-13		0.00	1114.36	950.00	164.36	71.22
J-14		0.00	1114.36	780.00	334.36	144.89
J-15		0.00	1114.36	780.00	334.36	144.89
J-16		0.00	1114.36	915.00	199.36	86.39
J-17		0.00	1114.36	850.00	264.36	114.56
J-18		0.00	1114.36	990.00	124.36	53.89
J-19		0.00	1212.43	1030.00	182.43	79.05
J-2		0.00	1114.36	1000.00	114.36	49.56
J-20		0.00	1212.43	1050.00	162.43	70.39
J-21		0.00	1212.43	1050.00	162.43	70.39
J-22		0.00	1212.43	1005.00	207.43	89.89
J-23		0.00	1212.43	1090.00	122.43	53.05
J-24		0.00	1212.43	1090.00	122.43	53.05
J-25		0.00	1212.43	1060.00	152.43	66.05
J-26		0.00	1212.43	1020.00	192.43	83.39
J-27		0.00	1212.43	1070.00	142.43	61.72
J-28		0.00	1212.43	1050.00	162.43	70.39
J-29		0.00	1114.36	530.00	584.36	253.22
J-3		0.00	1212.43	1025.00	187.43	81.22
J-30		0.00	1114.36	530.00	584.36	253.22

J-31	0.00	1114.36	565.00	549.36	238.06
J-32	0.00	1114.36	900.00	214.36	92.89
J-33	0.00	1114.36	860.00	254.36	110.22
J-34	0.00	1212.43			
J-35	0.00	1114.36	1000.00	114.36	49.56
J-36	72.00 (0.48)	1142.31	1009.00	133.31	57.77
J-37	99.84 (0.48)	1114.36	998.50	115.86	50.21
J-38	157.44 (0.48)	1212.43			
J-39	0.00	1212.43	1070.00	142.43	61.72
J-4	0.00	1212.43	1010.00	202.43	87.72
J-40	0.00	1212.43	1040.00	172.43	74.72
J-41	0.00	1212.43	1070.00	142.43	61.72
J-42	0.00	1212.43	1130.00	82.43	35.72
J-43	0.00	1212.43	1130.00	82.43	35.72
J-5	0.00	1212.43	1040.00	172.43	74.72
J-6	0.00	1212.43	1050.00	162.43	70.39
J-7	0.00	1212.43	1000.00	212.43	92.05
J-8	0.00	1212.43	1021.00	191.43	82.95
J-9	0.00	1212.43	1040.00	172.43	74.72
PERSIMMON	----	1212.43	1115.00	97.43	42.22
I-Pump-1	0.00	1114.36			
O-Pump-2	0.00	1212.43	995.00	217.43	94.22
I-Pump-3	0.00	550.00	540.00	10.00	4.33
R-2	----	550.00			
O-Pump-1	0.00	1142.32			
I-Pump-2	0.00	1114.36	995.00	119.36	51.72
O-Pump-3	0.00	1114.36	540.00	574.36	248.89

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURES (psi)	JUNCTION NUMBER	MINIMUM PRESSURES (psi)
J-29	253.22	I-Pump-3	4.33
J-30	253.22	J-42	35.72
O-Pump-3	248.89	J-43	35.72

VELOCITIES

PIPE NUMBER	MAXIMUM VELOCITY (ft/s)	PIPE NUMBER	MINIMUM VELOCITY (ft/s)
P-50	0.64	P-43	0.16
P-42	0.46	P-42	0.46

HL + ML / 1000

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
P-50	0.20	P-43	0.01
P-42	0.14	P-42	0.14

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)

S U M M A R Y O F I N F L O W S A N D O U T F L O W S

(INFLOWS INTO THE SYSTEM FROM SUPPLY NODES
(-, OUTFLOWS FROM THE SYSTEM INTO SUPPLY NODES

NODE NAME	FLOWRATE (gpm)	NODE TITLE
CLOYD WILLI	99.84	
COUNTY HOUS	72.00	
PERSIMMON	157.44	
R-2	0.00	

NET SYSTEM INFLOW = 329.28
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 329.28

T A N K S T A T U S R E P O R T (time = 48.0000 hours)

TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS	PROJECTED DEPTH (ft)
CLOYD WILLI(1)	-99.84	1114.36	29.36	541064.	86.4	DRAINING	29.04
COUNTY HOUS(1)	-72.00	1142.32	24.32	357234.	78.5	DRAINING	24.03
PERSIMMON(1)	-157.44	1212.43	22.43	243692.	86.3	DRAINING	21.56

* TANK TYPE: (1) - CONSTANT DIAMETER (2) - VARIABLE AREA

Total Power Cost

TOTAL POWER COST (\$) FOR THIS SIMULATION = 305.18

Max/Min Summary

Summary of Max/Min Node Values

Node	MnPres	MnHead	MnHGL	MnTime	MxPres	MxHead	MxHGL	MxTime	Elevation
CLOYD WILL	44.67	103.09	1101.59	13.00	52.04	120.09	1118.59	17.00	998.5
COUNTY HOU	56.45	130.26	1139.26	18.00	60.48	139.57	1148.57	3.00	1009.0
J-1	31.63	73.00	1101.00	13.00	38.99	89.98	1117.98	17.00	1028.0
J-10	51.68	119.26	1139.26	18.00	55.71	128.57	1148.57	3.00	1020.0
J-11	77.68	179.26	1139.26	18.00	86.88	200.50	1160.50	3.00	960.0
J-12	153.51	354.26	1139.26	18.00	164.68	380.02	1165.02	3.00	785.0
J-13	43.52	100.42	1050.42	21.00	72.79	167.98	1117.98	17.00	950.0
J-14	119.46	275.67	1055.67	21.00	146.46	337.98	1117.98	17.00	780.0

J-15	120.69	278.52	1058.52	21.00	148.48	337.98	1117.98	17.00	780.0
J-16	66.01	152.33	1067.33	21.00	87.96	202.98	1117.98	17.00	915.0
J-17	95.37	220.08	1070.08	21.00	116.12	267.98	1117.98	17.00	850.0
J-18	44.43	102.53	1092.53	21.00	55.46	127.98	1117.98	17.00	990.0
J-19	74.92	172.88	1202.88	12.00	113.38	261.65	1291.65	45.00	1030.0
J-2	43.77	101.00	1101.00	13.00	51.12	117.98	1117.98	17.00	1000.0
J-20	66.25	152.88	1202.88	12.00	104.07	240.17	1290.17	45.00	1050.0
J-21	66.25	152.88	1202.88	12.00	99.04	228.55	1278.55	45.00	1050.0
J-22	85.75	197.88	1202.88	12.00	125.26	289.07	1294.07	45.00	1005.0
J-23	48.92	112.88	1202.88	12.00	54.60	126.01	1216.01	3.99	1090.0
J-24	48.92	112.88	1202.88	12.00	54.69	126.20	1216.20	3.99	1090.0
J-25	61.92	142.88	1202.88	12.00	78.84	181.93	1241.93	3.99	1060.0
J-26	79.25	182.88	1202.88	12.00	104.37	240.86	1260.86	45.00	1020.0
J-27	57.58	132.88	1202.88	12.00	86.62	199.89	1269.89	45.00	1070.0
J-28	66.25	152.88	1202.88	12.00	99.56	229.76	1279.76	45.00	1050.0
J-29	247.69	571.59	1101.59	13.00	275.77	636.39	1166.39	17.00	530.0
J-3	77.08	177.88	1202.88	12.00	117.54	271.23	1296.23	45.00	1025.0
J-30	247.69	571.59	1101.59	13.00	277.56	640.52	1170.52	17.00	530.0
J-31	232.52	536.59	1101.59	13.00	254.24	586.71	1151.71	17.00	565.0
J-32	87.35	201.59	1101.59	13.00	103.23	238.23	1138.23	17.00	900.0
J-33	104.69	241.59	1101.59	13.00	121.58	280.56	1140.56	17.00	860.0
J-34	521.25	1202.88	1202.88	12.00	550.14	1269.56	1269.56	45.00	0.0
J-35	44.02	101.59	1101.59	13.00	51.39	118.60	1118.60	17.00	1000.0
J-36	56.42	130.20	1139.20	18.00	60.48	139.57	1148.57	3.00	1009.0
J-37	44.67	103.08	1101.58	13.00	52.04	120.09	1118.59	17.00	998.5
J-38	521.24	1202.87	1202.87	12.00	526.93	1216.00	1216.00	3.99	0.0
J-39	57.58	132.88	1202.88	12.00	85.69	197.75	1267.75	45.00	1070.0
J-4	83.58	192.88	1202.88	12.00	126.78	292.57	1302.57	45.00	1010.0
J-40	70.58	162.88	1202.88	12.00	94.50	218.07	1258.07	45.00	1040.0
J-41	57.58	132.88	1202.88	12.00	73.26	169.07	1239.07	3.99	1070.0
J-42	31.58	72.88	1202.88	12.00	39.36	90.84	1220.84	3.99	1130.0
J-43	31.58	72.88	1202.88	12.00	41.52	95.81	1225.81	3.99	1130.0
J-5	70.58	162.88	1202.88	12.00	116.99	269.97	1309.97	45.00	1040.0
J-6	66.25	152.88	1202.88	12.00	114.00	263.07	1313.07	45.00	1050.0
J-7	87.92	202.88	1202.88	12.00	138.24	319.02	1319.02	45.00	1000.0
J-8	78.82	181.88	1202.88	12.00	130.28	300.64	1321.64	45.00	1021.0
J-9	70.58	162.88	1202.88	12.00	125.89	290.51	1330.51	45.00	1040.0
PERSIMMON	38.08	87.88	1202.88	12.00	43.77	101.00	1216.00	3.99	1115.0
I-Pump-1	454.45	1048.73	1048.73	21.00	484.46	1117.98	1117.98	17.00	0.0
O-Pump-2	90.08	207.88	1202.88	12.00	146.50	338.07	1333.07	45.00	995.0
I-Pump-3	4.33	9.98	549.98	13.00	4.33	10.00	550.00	1.00	540.0
R-2	238.33	550.00	550.00	0.00	238.33	550.00	550.00	0.00	0.0
O-Pump-1	493.68	1139.26	1139.26	18.00	506.80	1169.54	1169.54	3.00	0.0
I-Pump-2	40.92	94.44	1089.44	13.00	52.15	120.34	1115.34	45.00	995.0
O-Pump-3	243.35	561.59	1101.59	13.00	273.28	630.65	1170.65	17.00	540.0

***** HYDRAULIC ANALYSIS COMPLETED *****