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PUBLIC SERVICE
COMMISSION

BRUCE E. SMITH
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December 12, 2012

VIA HAND DELIVERY

Mr. Jeff R. Derouen
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602


Re: **Case No. 2012-00470**

Dear Mr. Derouen:

In response to the Commission's Informational Request No. 1, the Water District answered by submitting a paper document and also referenced in its Answer digital information. The digital information portion of the Water District's response was inadvertently not included in the Water District's filing of Informational Responses yesterday.

Transmitted under cover of this letter is the digital information referenced in the Water District's Answer to the Commission's Request No. 1. A copy of this disc is also being delivered today to opposing counsel.

Sincerely,


Bruce E. Smith

Enclosure
cc: Robert M. Watt, III, Esq. w/disc

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* * * * * K Y P I P E 5 * * * * *
*
*           Pipe Network Modeling Software
*
*           Copyrighted by KYPIPE LLC
*           Version 5 - February 2010
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* * * * *

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Date & Time: Mon Dec 10 09:19:20 2012

Master File : Q:\HYDDATA\KYPIPE\New Tank 2010\tank analysis 2010 eps.P2K

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

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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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R E G U L A T I N G V A L V E D A T A

VALVE LABEL	VALVE TYPE	VALVE SETTING (ft or gpm)
RV-1	PRV-1	1089.85
RV-2	PRV-1	1090.08
RV-R1	PRV-1	1090.08
RV-R2	PRV-1	1090.00

P I P E L I N E D A T A

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE NAME	NODE NAMES #1	NODE NAMES #2	LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF.	MINOR LOSS
1	52	239	2847.56	12.00	150.0000	4.70
2	13	107	1572.75	8.00	150.0000	4.70

3	208	107	536.71	12.00	150.0000	14.10
4	208	O-Pump-1	145.95	12.00	150.0000	0.00
5	6	7	2450.00	6.00	150.0000	0.00
6	98	8	565.00	6.00	150.0000	0.00
7	101	10	1690.00	6.00	150.0000	0.00
8	99	11	600.00	6.00	150.0000	0.00
9	3	84	400.00	6.00	150.0000	0.00
10	6	9	700.00	6.00	150.0000	0.00
11	4	7	950.00	4.00	150.0000	0.00
12	7	10	1640.00	4.00	150.0000	0.00
13	4	8	1976.79	6.00	150.0000	0.00
14	8	11	1480.00	6.00	150.0000	0.00
15	10	12	2950.00	4.00	150.0000	0.00
16	12	13	2000.00	6.00	150.0000	0.00
17	12	14	2600.00	4.00	150.0000	0.00
18	15	333	1517.68	6.00	150.0000	0.00
19	TANK-A	O-AV-1	93.52	6.00	150.0000	2.00
20	16	15	600.00	6.00	150.0000	0.00
21	172	96	560.67	6.00	150.0000	0.00
22	155	331	1152.91	4.00	150.0000	0.00
23	149	19	2227.95	10.00	150.0000	0.00
24	19	20	2900.00	3.00	150.0000	0.00
25	20	21	600.00	3.00	150.0000	0.00
26	21	22	200.00	3.00	150.0000	0.00
27	22	24	1100.00	2.00	150.0000	0.00
28	21	23	1100.00	3.00	150.0000	0.00
29	23	25	1050.00	3.00	150.0000	0.00
30	24	26	1050.00	2.00	150.0000	0.00
31	25	26	200.00	3.00	150.0000	0.00
32	23	24	200.00	3.00	150.0000	0.00
33	216	286	5346.15	10.00	150.0000	0.00
34	284	27	434.89	10.00	150.0000	0.00
35	153	29	2500.00	4.00	150.0000	0.00
36	29	195	1000.00	4.00	150.0000	0.00
37	208	O-Pump-2	140.78	12.00	150.0000	0.00
38	3	31	10.00	6.00	150.0000	2.00
39	209	I-Pump-2	142.29	12.00	150.0000	0.00
40	14	146	1740.00	6.00	150.0000	0.00
41	46	31	850.00	12.00	150.0000	2.00
42	31	47	530.00	8.00	150.0000	2.00
43	18	45	3000.00	4.00	150.0000	0.00
44	16	172	969.61	8.00	150.0000	0.00
45	35	287	2553.49	4.00	150.0000	0.00
46	34	36	1150.00	4.00	150.0000	0.00
47	49	325	2589.03	6.00	150.0000	0.00
48	46	47	900.00	8.00	150.0000	2.00
49	47	33	340.00	8.00	150.0000	0.00
50	34	37	3050.00	4.00	150.0000	0.00
51	33	38	570.00	6.00	150.0000	0.00
52	33	39	250.00	8.00	150.0000	0.00
53	38	39	1335.00	6.00	150.0000	0.00
54	39	40	740.00	8.00	150.0000	0.00
55	40	41	425.00	6.00	150.0000	0.00
56	40	42	575.00	8.00	150.0000	0.00
57	41	42	1415.00	6.00	150.0000	0.00
58	42	43	145.00	8.00	150.0000	0.00
59	91	51	1800.00	4.00	150.0000	0.00

60	66	17	9874.87	6.00	150.0000	9.00
61	91	129	500.00	6.00	150.0000	0.00
62	20	49	2000.00	4.00	150.0000	0.00
63	53	323	883.92	6.00	150.0000	0.00
64	54	55	2650.00	6.00	150.0000	0.00
65	54	56	3900.00	6.00	150.0000	0.00
66	56	57	1050.00	6.00	150.0000	0.00
67	57	58	1200.00	6.00	150.0000	0.00
68	58	327	1977.19	6.00	150.0000	0.00
69	58	60	1550.00	6.00	150.0000	0.00
70	61	60	5700.00	6.00	150.0000	0.00
71	27	49	3100.00	6.00	150.0000	0.00
72	62	61	1050.00	6.00	150.0000	0.00
73	62	32	5490.00	6.00	150.0000	0.00
74	63	133	4000.00	6.00	150.0000	0.00
75	64	63	3200.00	4.00	150.0000	0.00
76	65	277	2627.99	4.00	150.0000	0.00
77	65	82	2666.10	4.00	150.0000	0.00
78	209	I-Pump-1	97.71	12.00	150.0000	0.00
79	82	83	1610.54	4.00	150.0000	0.00
80	67	97	1030.00	4.00	150.0000	0.00
81	84	52	1600.00	6.00	150.0000	0.00
82	81	85	400.00	10.00	150.0000	0.00
83	71	80	4900.00	4.00	150.0000	0.00
84	78	244	4233.41	4.00	150.0000	0.00
85	160	181	2500.00	4.00	150.0000	0.00
86	76	77	1000.00	4.00	150.0000	0.00
87	75	77	2150.00	4.00	150.0000	0.00
88	73	75	1900.00	4.00	150.0000	0.00
89	73	74	1500.00	4.00	150.0000	0.00
90	72	235	1090.18	4.00	150.0000	0.00
91	70	72	1080.00	4.00	150.0000	0.00
92	70	76	2800.00	4.00	150.0000	0.00
93	97	117	2000.00	4.00	150.0000	0.00
94	97	70	1750.00	4.00	150.0000	0.00
95	68	116	700.00	8.00	150.0000	0.00
96	68	90	800.00	4.00	150.0000	0.00
97	135	174	719.19	8.00	150.0000	3.80
98-CV	69	128	15.00	8.00	150.0000	10.00
99	67	68	2700.00	8.00	150.0000	0.00
100	FGN-BB	69	170.00	6.00	130.0000	55.90
101	50	104	1015.00	6.00	150.0000	0.00
102	88	50	2225.00	6.00	150.0000	0.00
103	105	39	1430.00	6.00	150.0000	0.00
104	48	88	340.00	6.00	150.0000	0.00
105	106	48	785.00	6.00	150.0000	0.00
106	108	48	610.00	6.00	150.0000	0.00
107	77	71	920.00	4.00	150.0000	0.00
108	67	68	2700.00	4.00	150.0000	0.00
109	84	6	800.00	6.00	150.0000	0.00
110	85	140	800.00	10.00	150.0000	0.00
111	85	139	750.00	8.00	150.0000	0.00
112	92	46	1200.00	12.00	150.0000	0.00
113	92	81	20.00	10.00	150.0000	0.00
114	87	260	828.36	8.00	150.0000	2.00
115	194	30	2608.44	6.00	150.0000	1.50
116	29	51	1900.00	4.00	150.0000	0.00

117	332	17	4108.85	6.00	150.0000	0.00
118	123	332	1116.82	6.00	150.0000	0.00
119	123	242	2356.79	6.00	150.0000	0.00
120	124	167	3100.00	4.00	130.0000	0.00
121	TANK-B	89	70.00	12.00	150.0000	2.70
122	122	253	1961.05	10.00	150.0000	2.50
123	192	207	2016.21	8.00	150.0000	1.50
124	90	185	1200.00	4.00	130.0000	0.00
125	87	43	2500.00	8.00	150.0000	0.00
126	124	37	4200.00	6.00	150.0000	0.00
127	94	71	750.00	6.00	150.0000	0.00
128	94	95	450.00	6.00	150.0000	0.00
129	I-AV-1	15	36.48	6.00	150.0000	0.00
130	94	119	3120.00	6.00	150.0000	0.00
131	86	95	2250.00	6.00	150.0000	0.00
132	95	76	440.00	6.00	150.0000	0.00
133-CV	209	208	279.75	12.00	150.0000	0.00
134	128	260	3534.86	4.00	120.0000	7.60
135	7	98	580.00	6.00	150.0000	0.00
136	98	99	1775.00	6.00	150.0000	0.00
137	11	100	475.00	6.00	150.0000	0.00
138	99	10	1170.00	6.00	150.0000	0.00
139	101	9	1000.00	6.00	150.0000	0.00
140	101	102	1100.00	6.00	150.0000	0.00
141	9	102	675.00	6.00	150.0000	0.00
142	9	103	350.00	6.00	150.0000	0.00
143	43	104	625.00	6.00	150.0000	0.00
144	104	105	860.00	6.00	150.0000	0.00
145	105	88	890.00	6.00	150.0000	0.00
146	106	47	425.00	6.00	150.0000	0.00
147	106	210	675.00	6.00	150.0000	0.00
148	210	108	715.00	12.00	150.0000	0.00
149	108	4	1300.00	12.00	150.0000	0.00
150	66	328	718.22	6.00	150.0000	2.00
151	109	110	750.00	6.00	150.0000	0.00
152	110	320	409.19	6.00	150.0000	0.00
153	111	112	700.00	6.00	150.0000	0.00
154	66	112	350.00	6.00	150.0000	0.00
155	112	113	750.00	6.00	150.0000	0.00
156	112	319	258.07	6.00	150.0000	0.00
157	234	330	220.67	8.00	150.0000	0.00
158	127	126	344.98	10.00	150.0000	0.00
159	140	52	800.00	10.00	150.0000	0.00
160	4	5	1450.00	12.00	150.0000	0.00
161	R-1	209	144.11	12.00	150.0000	0.00
162	137	294	3098.33	10.00	150.0000	1.50
163	18	149	2072.05	6.00	150.0000	1.50
164	19	284	1765.11	10.00	150.0000	1.50
165	140	139	750.00	8.00	150.0000	0.00
166	141	53	6324.12	6.00	150.0000	0.00
167	126	155	13.71	10.00	130.0000	0.00
168	200	137	14.55	10.00	130.0000	0.00
169	5	1	4201.48	12.00	150.0000	4.70
170	141	142	2112.00	6.00	150.0000	3.50
171	78	161	1835.31	6.00	150.0000	0.00
172	161	173	4000.00	6.00	150.0000	0.00
173	181	78	1949.34	6.00	150.0000	0.00

174	174	222	278.20	8.00	150.0000	0.00
175	164	118	2200.00	6.00	150.0000	0.00
176	118	117	700.00	6.00	150.0000	0.00
177	118	86	820.00	6.00	150.0000	0.00
178	119	86	3940.00	6.00	150.0000	0.00
179	92	175	1829.44	6.00	150.0000	7.60
180	176	183	575.00	8.00	150.0000	0.00
181	175	176	600.00	6.00	150.0000	0.00
182	175	177	600.00	6.00	150.0000	0.00
183	183	184	700.00	8.00	150.0000	0.00
184	196	62	3200.87	6.00	150.0000	0.00
185	16	122	2150.00	6.00	150.0000	0.00
186	128	121	495.00	4.00	150.0000	1.00
187	177	183	600.00	6.00	150.0000	0.00
188	16	122	2010.00	8.00	150.0000	2.10
189	184	174	500.00	8.00	150.0000	0.00
190	177	184	1000.00	6.00	150.0000	0.00
191	185	165	800.00	12.00	140.0000	0.00
192	125	326	936.84	10.00	150.0000	4.00
193	314	165	937.25	8.00	150.0000	0.00
194	68	90	800.00	8.00	150.0000	2.10
195	165	119	6100.00	6.00	150.0000	0.00
196	171	312	928.59	6.00	130.0000	0.00
197	170	171	2103.85	6.00	150.0000	0.00
198	180	186	1059.61	6.00	150.0000	0.00
199	186	187	2132.93	6.00	150.0000	0.00
200	187	I-RV-1	488.30	6.00	150.0000	0.00
201	145	188	1403.45	6.00	150.0000	2.30
202	4	189	688.30	6.00	150.0000	0.00
203	88	191	1166.85	6.00	150.0000	0.00
204	189	191	505.01	6.00	150.0000	0.00
205	191	197	961.25	6.00	150.0000	0.00
206	197	50	886.74	6.00	150.0000	0.00
207	197	198	1090.54	6.00	150.0000	0.00
208	197	199	499.88	6.00	150.0000	0.00
209	199	202	1104.61	6.00	150.0000	0.00
210	199	158	800.00	6.00	150.0000	0.00
211	115	127	901.39	4.00	150.0000	0.00
212-XX	69	128	15.00	2.00	150.0000	5.00
213	203	317	388.34	6.00	150.0000	0.00
214	134	141	1200.00	6.00	150.0000	2.00
215	30	134	2200.00	6.00	150.0000	2.00
216	129	93	450.00	6.00	150.0000	2.00
217	129	130	2300.00	6.00	150.0000	2.00
218	130	131	1700.00	6.00	150.0000	2.00
219	56	132	900.00	6.00	150.0000	1.00
220	133	61	1400.00	6.00	150.0000	2.00
221	128	138	600.00	8.00	150.0000	4.00
222	92	176	2200.00	8.00	150.0000	8.64
223	138	135	30.00	6.00	150.0000	9.60
224	204	203	1359.37	4.00	150.0000	0.00
225	204	310	1527.15	6.00	150.0000	0.00
226	205	206	1145.98	6.00	150.0000	0.00
227	205	203	2111.36	6.00	150.0000	0.00
228	207	219	1698.51	8.00	150.0000	0.00
229	207	250	701.01	6.00	150.0000	0.00
230	211	212	2005.89	6.00	150.0000	0.00

231	212	1	1472.83	6.00	150.0000	0.00
232	151	213	2317.84	6.00	150.0000	0.00
233	82	214	981.14	6.00	150.0000	0.00
234	214	215	1714.24	6.00	150.0000	0.00
235	215	151	1044.08	6.00	150.0000	0.00
236	214	215	1773.79	6.00	150.0000	0.00
237	285	28	1124.37	10.00	150.0000	0.00
238	216	218	995.43	6.00	150.0000	3.00
239	217	231	648.98	6.00	150.0000	0.00
240	218	228	806.86	6.00	150.0000	0.00
241	127	143	1465.00	4.00	150.0000	4.90
242	29	144	200.00	2.00	150.0000	2.90
243	14	145	200.00	4.00	150.0000	2.30
244	146	44	480.00	6.00	150.0000	2.30
245	146	147	800.00	6.00	150.0000	2.30
246	44	148	820.00	6.00	150.0000	2.30
247	83	282	2200.31	6.00	150.0000	4.60
248	83	150	2187.98	6.00	150.0000	4.00
249	150	151	2280.06	6.00	150.0000	2.20
250	153	152	1050.00	4.00	150.0000	2.00
251	28	153	300.00	4.00	150.0000	1.10
252	72	154	1480.00	4.00	150.0000	2.90
253	288	216	793.52	10.00	150.0000	0.00
254	156	66	650.00	6.00	150.0000	2.00
255	64	157	4155.70	4.00	150.0000	1.50
256	5	158	1400.00	4.00	130.0000	1.50
257	75	159	720.00	4.00	130.0000	1.50
258	219	314	3028.03	8.00	150.0000	0.00
259	165	220	1798.80	6.00	150.0000	0.00
260	220	221	1235.98	6.00	150.0000	0.00
261	220	221	1238.62	6.00	150.0000	0.00
262	220	251	1376.27	6.00	150.0000	0.00
263	77	160	1400.00	4.00	130.0000	2.00
264	222	87	1222.60	8.00	150.0000	0.00
265	184	223	258.83	6.00	150.0000	0.00
266	223	222	394.05	6.00	150.0000	0.00
267	176	224	321.17	6.00	150.0000	0.00
268	90	162	1000.00	6.00	130.0000	4.00
269	136	162	930.00	6.00	130.0000	2.50
270	163	162	1125.00	6.00	130.0000	3.50
271	136	163	360.00	6.00	130.0000	0.50
272	163	164	282.00	6.00	130.0000	0.80
273	136	164	1020.00	6.00	130.0000	3.10
274	116	136	350.00	6.00	130.0000	0.50
275	223	224	1360.35	6.00	150.0000	0.00
276	285	284	239.29	10.00	150.0000	0.00
277	227	225	749.09	6.00	150.0000	0.00
278	226	64	1294.34	4.00	150.0000	0.00
279	90	185	1200.00	8.00	140.0000	2.90
280	226	225	4000.00	6.00	150.0000	0.00
281	96	167	2988.15	4.00	150.0000	0.00
282	115	127	900.00	10.00	130.0000	0.90
283	166	124	1200.00	4.00	130.0000	1.50
284	167	34	3200.00	4.00	130.0000	1.50
285	168	169	1400.00	4.00	130.0000	1.50
286	65	168	1200.00	4.00	130.0000	1.50
287	227	283	1296.85	6.00	150.0000	0.00

288	170	171	506.08	6.00	130.0000	1.50
289	127	329	2936.44	4.00	130.0000	1.50
290	80	179	2650.00	6.00	150.0000	1.50
291	179	180	1495.10	6.00	150.0000	3.00
292	181	78	2300.00	4.00	150.0000	1.50
293	181	182	1700.00	6.00	150.0000	1.50
294	31	210	810.63	12.00	150.0000	0.00
295	1	334	2484.13	12.00	150.0000	0.00
296	333	2	864.41	6.00	150.0000	4.70
297	225	229	2054.14	6.00	150.0000	0.00
298	218	228	2562.32	6.00	150.0000	6.00
299	228	217	722.51	6.00	150.0000	0.00
300	218	292	815.37	6.00	150.0000	0.00
301	170	178	1000.00	6.00	130.0000	1.50
302	201	267	683.60	6.00	130.0000	1.50
303	O-RV-R1	201	10.00	4.00	130.0000	0.75
304	O-RV-R2	200	10.00	6.00	130.0000	0.75
305	217	231	1599.56	6.00	150.0000	0.00
306	231	265	575.39	6.00	150.0000	0.00
307	196	230	1600.00	6.00	150.0000	9.00
308	120	49	1600.00	6.00	150.0000	0.00
309	230	120	2650.00	6.00	150.0000	0.00
310	230	120	2700.00	6.00	150.0000	0.00
311	55	232	1676.90	6.00	150.0000	0.00
312	232	321	2872.09	6.00	150.0000	0.00
313	123	234	926.33	6.00	130.0000	0.00
314	235	73	2079.82	4.00	150.0000	0.00
315	235	236	1753.11	6.00	150.0000	0.00
316	97	237	1988.28	6.00	150.0000	0.00
317	145	238	3439.89	6.00	130.0000	1.50
318	12	14	1423.01	6.00	150.0000	0.00
319	190	16	1800.00	8.00	130.0000	0.00
320	89	192	2100.00	8.00	130.0000	1.50
321	193	276	802.92	6.00	130.0000	3.00
322	286	285	1449.66	10.00	150.0000	0.00
323	194	51	625.00	6.00	130.0000	1.50
324	194	93	3500.00	6.00	150.0000	1.50
325	195	196	1842.36	6.00	150.0000	3.00
326	195	30	1500.00	6.00	130.0000	0.00
327	14	145	626.29	6.00	150.0000	2.30
328	239	107	2786.36	12.00	150.0000	0.00
329	239	240	785.30	6.00	150.0000	9.40
330	240	102	804.73	6.00	150.0000	0.00
331	242	245	620.65	6.00	150.0000	0.00
332	242	243	1354.14	6.00	150.0000	0.00
333	243	124	687.53	6.00	150.0000	0.00
334	O-RV-1	193	2532.31	6.00	150.0000	0.00
335	I-RV-2	125	4437.75	6.00	150.0000	0.00
336-XX	331	115	151.49	6.00	150.0000	0.00
337-XX	333	190	178.62	6.00	150.0000	0.00
339	244	79	918.36	4.00	150.0000	0.00
340	248	238	1271.24	6.00	150.0000	0.00
341	291	167	1686.06	12.00	150.0000	4.00
342	250	211	1623.75	6.00	150.0000	0.00
343	251	219	323.73	6.00	150.0000	0.00
344	251	250	1790.74	6.00	150.0000	0.00
345	192	252	1510.04	6.00	131.8326	0.00

346	190	252	2222.23	6.00	131.8326	0.00
347	252	250	1786.66	6.00	131.8326	0.00
348	253	89	1088.95	10.00	150.0000	0.00
349	253	192	2494.92	6.00	150.0000	2.50
350	198	254	1058.03	6.00	150.0000	0.00
351	254	255	715.41	6.00	150.0000	0.00
352	256	261	1475.59	10.00	150.0000	0.00
353	256	255	268.72	6.00	150.0000	2.00
354	254	257	576.56	6.00	150.0000	0.00
355	257	258	1064.79	6.00	131.8326	0.00
356	258	259	1563.02	6.00	131.8326	0.00
357	259	257	1126.59	6.00	131.8326	0.00
358	260	256	1103.07	10.00	150.0000	0.00
359	259	260	190.36	6.00	150.0000	2.00
360	261	67	2279.79	8.00	150.0000	0.00
361	262	228	739.01	6.00	150.0000	0.00
362	262	263	623.26	6.00	150.0000	0.00
363	263	264	480.37	6.00	150.0000	0.00
364	265	O-RV-2	313.69	6.00	150.0000	0.00
365	263	265	981.23	6.00	150.0000	0.00
366	222	300	498.50	6.00	150.0000	11.40
367	296	266	844.74	6.00	150.0000	0.00
368	267	168	1316.40	6.00	130.0000	0.00
369	267	272	1359.71	6.00	130.0000	7.50
370	268	289	1061.73	6.00	130.0000	0.00
371	269	268	1008.26	6.00	130.0000	0.00
372	269	271	1704.77	6.00	130.0000	3.00
373	271	270	684.10	6.00	130.0000	0.00
374	270	269	1704.42	6.00	130.0000	0.00
375	272	271	792.79	6.00	130.0000	0.00
376	236	74	2481.05	6.00	150.0000	0.00
377	256	274	978.51	6.00	150.0000	7.60
378	273	237	852.00	6.00	150.0000	0.00
379	274	273	1538.58	6.00	150.0000	0.00
380	274	275	450.54	6.00	150.0000	7.60
381	276	268	985.15	6.00	130.0000	0.00
382	277	204	1628.35	4.00	150.0000	0.00
383	277	278	1235.76	6.00	150.0000	0.00
384	278	279	1205.45	6.00	150.0000	0.00
385	278	280	1478.76	6.00	150.0000	0.00
386	289	65	2150.20	6.00	130.0000	0.00
387	281	280	1596.72	6.00	150.0000	0.00
388	282	32	4362.15	6.00	130.0000	0.00
389	283	229	723.00	6.00	150.0000	0.00
390	282	283	1039.85	6.00	130.0000	1.50
391	287	286	489.52	6.00	150.0000	0.00
392	18	288	2203.94	6.00	150.0000	0.00
393	310	205	1040.49	6.00	150.0000	0.00
394	279	310	1346.09	6.00	150.0000	0.00
395	200	288	3927.83	4.00	150.0000	13.50
396	122	332	3782.65	6.00	150.0000	0.00
397	331	17	1651.95	6.00	150.0000	0.00
398	330	172	3865.69	8.00	150.0000	0.00
399	321	233	1289.26	6.00	150.0000	0.00
400	290	339	3581.07	6.00	150.0000	0.00
401	290	291	1310.32	6.00	133.7472	0.00
402	15	338	880.59	12.00	150.0000	0.00

403	292	262	753.68	6.00	150.0000	0.00
404	292	293	949.20	6.00	150.0000	0.00
405	294	288	718.86	10.00	150.0000	0.00
406	293	294	727.50	6.00	150.0000	1.50
407	293	295	514.70	6.00	150.0000	3.00
408	295	297	1965.71	6.00	150.0000	1.50
409	295	264	1212.65	6.00	150.0000	1.50
410	264	297	1133.74	6.00	150.0000	1.50
411	296	298	1188.85	6.00	150.0000	3.80
412	299	296	485.88	6.00	150.0000	0.00
413	273	301	2033.09	6.00	150.0000	22.80
414	266	299	1322.21	6.00	150.0000	0.00
415	266	301	2517.78	6.00	150.0000	0.00
416	301	298	406.56	6.00	150.0000	0.00
417	300	299	1896.99	6.00	150.0000	0.00
418	13	302	379.61	6.00	150.0000	0.00
419	302	303	544.15	6.00	150.0000	0.00
420	302	306	1025.43	6.00	150.0000	0.00
421	304	102	663.55	6.00	150.0000	0.00
422	304	240	258.38	6.00	150.0000	0.00
423	303	309	375.31	6.00	150.0000	0.00
424	303	308	760.28	6.00	150.0000	0.00
425	306	305	590.36	6.00	150.0000	0.00
426	305	304	1426.99	6.00	150.0000	0.00
427	307	304	660.11	6.00	150.0000	0.00
428	305	307	1018.44	6.00	150.0000	0.00
429	308	306	531.76	6.00	150.0000	0.00
430	309	307	1056.64	6.00	150.0000	0.00
431	255	311	888.13	6.00	150.0000	4.00
432	261	67	1971.29	4.00	120.0000	0.00
433	311	261	439.17	6.00	150.0000	0.00
434	312	109	365.33	6.00	130.0000	0.00
435	312	313	497.67	6.00	130.0000	0.00
436	186	315	4737.70	6.00	140.0000	0.00
437	114	315	568.21	6.00	140.0000	0.00
438	315	316	1850.47	6.00	140.0000	0.00
439	316	156	239.08	6.00	140.0000	0.00
440	316	314	5395.46	6.00	140.0000	0.00
441	317	226	905.99	6.00	150.0000	0.00
442	317	318	2336.81	6.00	150.0000	0.00
443	318	206	1716.75	6.00	150.0000	0.00
444	313	110	1422.51	6.00	150.0000	0.00
445	113	156	330.31	6.00	150.0000	0.00
446	319	114	201.93	6.00	150.0000	0.00
447	319	59	481.31	6.00	150.0000	0.00
448	111	59	248.52	6.00	150.0000	0.00
449	330	115	6864.89	8.00	150.0000	0.00
450	233	321	1289.26	6.00	150.0000	0.00
451	321	322	4343.86	6.00	150.0000	0.00
452	323	54	3016.08	6.00	150.0000	0.00
453	322	323	5147.69	6.00	150.0000	0.00
454	322	324	1505.02	6.00	150.0000	0.00
455	142	30	4608.91	6.00	150.0000	0.00
456	325	32	1760.97	6.00	150.0000	0.00
457	325	25	2653.81	6.00	150.0000	0.00
458	326	115	2813.16	10.00	150.0000	0.00
459	326	241	5529.53	6.00	150.0000	16.00

460	327	132	897.92	6.00	150.0000	0.00
461	320	111	190.81	6.00	150.0000	0.00
462	328	109	176.74	6.00	150.0000	0.00
463	328	320	384.90	6.00	150.0000	2.00
464	110	313	348.77	6.00	150.0000	0.00
465	332	122	3795.23	8.00	150.0000	0.00
466	334	190	1378.67	12.00	150.0000	0.00
467	333	338	715.33	6.00	133.7472	0.00
468	2	334	154.83	12.00	150.0000	0.00
469	291	339	3422.44	12.00	150.0000	0.00
470	291	TANK-C	50.00	12.00	150.0000	4.00
472	245	241	735.48	6.00	150.0000	0.00
473	338	339	334.85	12.00	150.0000	0.00
474-XX	245	166	180.91	6.00	150.0000	12.00

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=1)

HEAD (ft)	FLOWRATE (gpm)	EFFICIENCY (%)
96.00	0.00	0.00
90.00	500.00	75.00
74.00	800.00	81.00
59.00	1000.00	75.00

THERE IS A DEVICE AT NODE Pump-2> (ID=1)

N O D E D A T A

NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	JUNCTION ELEVATION (ft)	EXTERNAL GRADE (ft)
1	Aldridge Far	0.67	985.00	
2		0.00	980.00	
3		0.00	977.00	
4	US-68 & Bran	0.21	997.00	
5	US-68 @ Oris	2.08	1000.00	
6	Lntrn&oldcoc	4.95	970.00	
7		7.57	1000.00	
8	Lantern Ct	2.65	1020.00	
9		0.50	970.00	
10		1.42	1000.00	
11		3.26	1020.00	
12		1.72	955.00	
13		1.31	927.00	
14		1.72	968.00	
15		1.18	1032.00	

16		1.63	1028.00
17		10.79	979.00
18	US68 & Barkl	4.47	955.00
19	US68 & KY29	1.43	949.00
20		0.28	870.00
21		0.40	887.00
22		0.40	887.00
23		0.40	877.00
24		0.40	877.00
25	Murphy Ln EO	0.40	870.00
26		0.40	870.00
27	US68 & CC rd	2.01	936.00
28		0.00	927.00
29		0.60	900.00
30		5.03	898.00
31		0.00	977.00
32	Clear&Richar	4.69	875.00
33		0.07	996.00
34		1.85	995.00
35		0.24	900.00
36	Catnip Hill	0.23	990.00
37	end o Sagart	2.21	990.00
38		0.21	984.00
39		1.38	985.00
40		0.34	992.00
41		0.44	986.00
42		1.02	988.00
43		0.96	996.00
44		0.42	970.00
45	BARKLEY EST	3.44	910.00
46		0.93	968.00
47		0.56	991.00
48		4.04	975.00
49		3.69	920.00
50	End of Fores	4.81	986.00
51	Roseglade Fa	1.34	935.00
52	End of Wynfr	2.68	940.00
53		3.35	798.00
54	Pekin & Trot	4.02	914.00
55		1.34	885.00
56		1.68	830.00
57		1.00	830.00
58		1.00	825.00
59	Keene	0.56	920.00
60		0.67	800.00
61		1.34	896.00
62		1.68	865.00
63		0.67	895.00
64	KY 1267 & Mc	4.02	889.00
65	Clear&KenTro	3.42	873.00
66	Keene 4 way	4.31	905.00
67		0.54	992.00
68		4.14	955.00
69		1.94	955.00
70		2.03	940.00
71		0.00	935.00
72		2.04	950.00

73		3.49	930.00
74		0.94	940.00
75		3.83	940.00
76		0.64	980.00
77	DF & Woods R	6.02	970.00
78	James Ln & D	5.67	928.00
79	James Lane E	3.41	915.00
80		3.68	947.00
81	us68 @ wynfr	0.00	965.00
82	CC Rd @ Chan	2.09	922.00
83	CC Rd @ CCE	2.21	913.00
84	Oldcoh&wdbri	2.35	950.00
85	wynfre&access	1.34	970.00
86		5.63	935.00
87		0.64	990.00
88	Spgcrst&Thou	3.76	995.00
89		0.00	1005.00
90		0.87	970.00
91		0.91	950.00
92	Bellerive ti	1.00	965.00
93	EOL KY 29	0.91	952.00
94		5.36	963.00
95		2.69	990.00
96		0.00	1033.00
97		4.68	958.00
98		0.65	1010.00
99		3.26	1010.00
100		0.80	1020.00
101		4.50	990.00
102		2.18	975.00
103		0.96	965.00
104		2.67	1003.00
105		3.49	1016.00
106		3.76	990.00
107		0.00	950.00
108		1.13	972.00
109	1267 @ Kings	1.68	895.00
110	Kingston	0.74	905.00
111	Keenesway	0.70	922.00
112	King @ Cemet	1.73	931.00
113	Kingston	1.35	935.00
114	Cemetery	0.29	948.00
115		0.26	950.00
116		0.00	961.00
117		0.60	950.00
118		0.47	950.00
119	Champions	7.47	950.00
120	Walden	1.17	900.00
121		0.67	950.00
122		0.67	980.00
123	Mattews Ln	0.67	950.00
124	Rhinehammer	0.00	1000.00
125	KY 169	0.84	940.00
126	10"PRV upstr	0.00	970.00
127		1.81	950.00
128		0.07	955.00
129		0.80	935.00

130		0.00	890.00
131	Drakes Ln EO	0.80	935.00
132	Tankersly	1.34	830.00
133		0.00	810.00
134		3.02	885.00
135		0.00	975.00
136		1.34	955.00
137	10"PRV dnstr	0.00	970.00
138		0.00	970.00
139	BELLARIVE PL	1.34	970.00
140		1.34	965.00
141	ICHTHUS & 68	0.67	850.00
142	ICHTHUS	1.68	885.00
143		1.34	958.00
144		4.36	885.00
145	Bran @ Chris	0.92	960.00
146		1.34	935.00
147		1.34	940.00
148		0.67	950.00
149	US 68	0.00	940.00
150	CCE unit 1	2.21	925.00
151	CCE unit2	2.61	901.00
152		2.68	927.00
153		0.00	927.00
154		1.00	950.00
155	PRV2	0.00	970.00
156	1267 @ Canad	1.34	898.00
157	KY1267 EOL	1.34	840.00
158	End of Ponde	3.95	1000.00
159	End of Tashm	3.11	940.00
160		6.70	941.00
161	Hawks Pt & D	3.05	905.00
162		2.68	975.00
163		0.67	960.00
164		0.67	958.00
165	12" Cambrige	3.99	972.00
166	Rhinehammer	2.68	990.00
167		0.34	995.00
168		0.00	880.00
169		3.35	880.00
170	KT @ Liberty	2.01	890.00
171	KT @ Liberty	2.01	890.00
172	catnip @ 68	0.00	1020.00
173	Stirling Est	3.05	850.00
174	S. Elk Rd @	1.34	985.00
175	Wind Haven &	1.17	945.00
176	Windward Way	2.01	970.00
177	Windy Knoll	2.01	950.00
178	PRV1	0.00	875.00
179	Woods Rd Est	2.08	891.00
180	Longnecker F	0.34	920.00
181	Parker & Del	2.35	895.00
182	End of Parke	2.58	915.00
183	Windy Knoll	1.34	975.00
184	Wind Haven D	2.01	960.00
185	12"-8" Cambr	0.00	963.00
186	Woods Rd @ 1	1.34	925.00

187	Clear Ck @ 1	0.20	925.00
188	Pannel Ext.	0.34	955.00
189	W.Brannon @	2.41	1005.00
190	US68 & Harod	0.00	998.00
191	W.Brannon @	1.81	985.00
192	Steel Estate	2.20	1028.00
193	EOL Clear Ck	1.00	850.00
194	Bicknell Ln	0.00	920.00
195	McCauly & US	0.50	898.00
196	McCauley rd	0.70	910.00
197	W.Brannon @	2.81	1003.00
198	W.Brannon @	1.81	975.00
199	Foaling Rg	2.01	985.00
200	dwnstrm PRV	0.00	970.00
201	dwnstrm PRV	0.00	875.00
202		1.61	980.00
203	KTroy @ Colo	2.61	870.00
204		2.81	850.00
205	Colonial Est	4.82	850.00
206	Colonial Est	3.02	840.00
207	Widows Watch	0.00	980.00
208		0.00	990.00
209		0.00	990.00
210		0.23	960.00
211	Keene Manor	4.02	1010.00
212	Keene Manor	5.03	960.00
213	CCE unit 2	1.00	860.00
214	Chandamere	3.02	919.00
215	Chandamere	3.02	910.00
216	US 68 @ Bark	0.00	935.00
217	Bark Woods	2.58	960.00
218	Sgate@Deerfi	4.22	920.00
219	Perkins	0.00	980.00
220	Cambridge Ea	2.95	970.00
221	Cambridge Ea	2.68	976.00
222	Windhaven@KY	0.60	985.00
223	Wind Hav @ W	2.01	975.00
224	Windward@Woo	2.61	980.00
225	Hollaway	3.02	920.00
226	KY1267 from	0.00	885.00
227	Hollaway Est	1.41	890.00
228	Stonegate@St	3.65	921.00
229	Hollaway Est	2.01	870.00
230	Walden	1.88	875.00
231	tugger cul d	1.88	905.00
232	Hagin @ Peki	0.47	871.00
233	Hagin EOL	1.17	940.00
234		0.67	950.00
235	Del Woods	0.67	945.00
236	Lot 20 DW	0.00	935.00
237	Emerald Est	2.58	965.00
238	Chris Haven	0.92	1030.00
239	Morgan @ Bel	2.41	960.00
240	Morgan Dr	1.00	975.00
241	FH on Ramsey	0.00	980.00
242		0.00	930.00
243		0.00	980.00

244		0.00	950.00
245		0.00	930.00
248	EOL Chris Ha	0.00	1002.00
250		4.47	1000.00
251		2.61	980.00
252	Harrods Ridg	3.13	1020.00
253		1.25	1020.00
254		1.25	989.00
255	W. Brannon L	0.94	984.00
256	KY1267	0.00	980.00
257	Eq Lakes	1.57	980.00
258		2.20	1003.00
259		1.37	970.00
260		0.00	970.00
261		0.00	935.00
262	BW	1.07	935.00
263	BW unit 7	1.07	930.00
264	BW unit 7	1.07	935.00
265	BW unit 7	0.44	895.00
266	Cambrig Nort	1.95	950.00
267	Cave Run @ K	0.00	855.00
268	Clear Cr Tie	0.00	825.00
269	Cave Run Cr	1.25	855.00
270	Cave Run Cr	0.94	900.00
271	Cave Run Cr	1.25	880.00
272	Cave Run Blv	1.72	855.00
273	Renaissance	1.80	940.00
274	Renasnce	1.05	946.00
275	Renasance	0.60	953.00
276		0.00	820.00
277	K-T @ The Oa	0.00	863.00
278	The Oaks	1.28	835.00
279	The Oaks	1.56	820.00
280	The Oaks	1.71	830.00
281	The Oaks	1.56	830.00
282	Clear C @ Ho	1.00	920.00
283	Holloway	0.00	880.00
284		0.00	940.00
285		0.00	940.00
286	US 68 @ KY 2	0.00	950.00
287	KY 29	0.00	960.00
288		2.81	925.00
289		0.00	875.00
290	Forest Hills	4.89	1020.00
291	Forest Hills	1.88	1016.00
292	BW	0.00	915.00
293	BW7	0.54	940.00
294	BW7 @ US68	0.00	900.00
295	BW7	0.96	953.00
296	Cambrig Nort	1.05	950.00
297	BW7	1.07	905.00
298	Cambrig Nort	1.50	990.00
299	Cambrig Nort	2.71	955.00
300	Cambrig Nort	0.00	1007.00
301	Cambrig Nort	0.00	986.00
302	Clays xing	2.81	950.00
303	Clays xing	2.81	950.00

304	Clays xing	3.10	975.00	
305	Clays xing	4.22	976.00	
306	Clays xing	2.81	980.00	
307	Clays xing	4.78	950.00	
308	Clays xing	2.81	975.00	
309	Clays xing	4.22	950.00	
310		0.00	840.00	
311	The Lakes II	1.57	960.00	
312	1267 @ Cush	0.28	895.00	
313	Cushingberry	0.56	910.00	
314		0.00	950.00	
315	Cemetery@169	0.42	923.00	
316	Keene 1267 @	0.00	911.00	
317	1267@Ebeneze	0.00	857.00	
318	Ebenezer Chu	0.28	810.00	
319	Keene	1.27	930.00	
320	Kingston @ K	0.28	915.00	
321	Hagin Ln Pek	0.28	920.00	
322	Pekin Ln	0.56	745.00	
323	KY 33 Pekin	0.28	810.00	
324	Pekin Ln EOL	0.84	850.00	
325	Clear Creek	0.00	920.00	
326	KY 169 Rhine	0.84	930.00	
327		0.28	870.00	
328	1267 in Keen	0.28	895.00	
329		0.28	970.00	
330		0.00	950.00	
331		0.00	958.00	
332		0.00	985.00	
333		0.00	998.00	
334		0.00	980.00	
338		0.00	1000.00	
339		0.00	1000.00	
O-AV-1	Altitude Val	0.00	1032.00	
FGN-BB		----	955.00	1139.00
I-Pump-1	perless 1240	0.00	990.00	
I-Pump-2	perless 1240	0.00	990.00	
R-1	KAWC Tank	----	985.00	1150.00
I-RV-1		0.00	920.00	
I-RV-2	Barkley W. P	0.00	890.00	
I-RV-R1	Keene PRV	0.00	875.00	
I-RV-R2	US 68 PRV	0.00	970.00	
TANK-A	Old Tank	----	1026.00	1154.00
TANK-B	New Tank - P	----	1015.00	1148.00
TANK-C	Chinkapin Ta	----	1025.00	1148.00
O-Pump-1	perless 1240	0.00	990.00	
O-Pump-2	perless 1240	0.00	990.00	
I-AV-1	Altitude Val	0.00	1032.00	
O-RV-R1	Keene PRV	----	875.00	1090.08
O-RV-R2	US 68 PRV	----	970.00	1090.00
O-RV-1		----	920.00	1089.85
O-RV-2	Barkley W. P	----	890.00	1090.08

O U T P U T O P T I O N D A T A

OUTPUT SELECTION: THE FOLLOWING RESULTS ARE INCLUDED IN THE TABULATED
OUTPUT

ALL CLOSED PIPES ARE NOTED
ALL PIPES WITH PUMPS

FOLLOWING PIPES

11
12
15
18
20
22
35
36
76
77
79
80
86
87
92
94
96
108
124
134
185
224
251
255
257
263
278
281
286
296
336
382
395
396
432
474

FOLLOWING JUNCTION NODES

36
66
79
131
157
173
182
217
233

MAXIMUM AND MINIMUM PRESSURES = 10
MAXIMUM AND MINIMUM HEAD LOSS/1000 = 5

E P S D A T A

TOTAL TIME FOR SIMULATION = 71.000
 NORMAL TIME PERIOD FOR CALCULATIONS = 0.250
 NORMAL TIME PERIOD FOR TABULATED OUTPUT = 1.000
 NORMAL TIME PERIOD FOR POSTPROCESSING FILE = 0.250

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

EXTERNAL	TANK NAME (*)	MAXIMUM ELEVATION (ft)	MINIMUM ELEVATION (ft)	TANK CAPACITY (gal)	INITIAL VOLUME (gal)	FLOW (gpm)
--	TANK-A(1)	1169.20	1153.00	54826.	3384.	
0.00	TANK-B(1)	1171.00	1135.00	528802.	190956.	
0.00	TANK-C(1)	1171.00	1133.00	1094032.	431855.	
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	89	1140.00 & 1170.00
Pump-1	291	1140.00 & 1154.00
AV-1	15	1133.00 & 1168.00

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

NUMBER OF PIPES(p) = 472
 NUMBER OF END NODES(j) = 338
 NUMBER OF PRIMARY LOOPS(l) = 130
 NUMBER OF SUPPLY NODES(f) = 5
 NUMBER OF SUPPLY ZONES(z) = 1

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Time: 0.000
Time: 0.000

CHANGES FOR NEXT SIMULATION (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 (0.00AM, DAY: 1)

RESULTS OBTAINED AFTER 15 TRIALS: ACCURACY = 0.00014

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

4.24	11	4	7	-84.68	4.02	0.00	2.16
1.15	12	7	10	-41.96	1.89	0.00	1.07
2.46	15	10	12	-63.11	7.25	0.00	1.61
1.02	18	15	333	-113.84	1.54	0.00	1.29
0.85	20	16	15	103.34	0.51	0.00	1.17
0.54	22	155	331	-27.80	0.62	0.00	0.71
0.00	35	153	29	1.76	0.01	0.00	0.04
0.00	36	29	195	0.57	0.00	0.00	0.01
0.00	76	65	277	1.99	0.01	0.00	0.05
0.00	0.00						

	77	65	82	1.97	0.01	0.00	0.05
0.00	0.00						
	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-9.73	0.08	0.00	0.25
0.08	0.08						
	86	76	77	1.48	0.00	0.00	0.04
0.00	0.00						
	87	75	77	15.09	0.37	0.00	0.39
0.17	0.17						
	92	70	76	25.50	1.28	0.00	0.65
0.46	0.46						
	94	97	70	42.30	2.05	0.00	1.08
1.17	1.17						
	96	68	90	33.32	0.60	0.00	0.85
0.75	0.75						
	108	67	68	39.74	2.82	0.00	1.01
1.04	1.04						
	124	90	185	38.06	1.51	0.00	0.97
1.26	1.26						
	134	128	260	18.55	1.36	0.03	0.47
0.39	0.38						
	185	16	122	65.54	0.79	0.00	0.74
0.37	0.37						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	35.42	2.52	0.00	0.90
0.84	0.84						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-280.83	4.68	0.74	3.19
6.27	5.41						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-23.61	0.21	0.00	0.27
0.06	0.06						
	432	261	67	33.86	2.31	0.00	0.86
1.17	1.17						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 0.0 ** ** 192.3 1236.22 159.30 199.34 40.0 52.46 13. 0.0

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

 --
 68.98 36 Catnip Hill 0.02(0.10)1149.19 990.00 159.19
 109.19 66 Keene 4 way 0.43(0.10)1156.98 905.00 251.98
 106.87 79 James Lane E 0.34(0.10)1161.62 915.00 246.62
 67.19 131 Drakes Ln EO 0.08(0.10)1090.05 935.00 155.05
 108.36 157 KY1267 EOL 0.13(0.10)1090.05 840.00 250.05
 135.04 173 Stirling Est 0.30(0.10)1161.62 850.00 311.62
 106.87 182 End of Parke 0.26(0.10)1161.62 915.00 246.62
 56.36 217 Bark Woods 0.26(0.10)1090.07 960.00 130.07
 65.02 233 Hagin EOL 0.12(0.10)1090.05 940.00 150.05

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)
322	149.52	96	51.04
173	135.04	15	51.34
53	126.56	I-AV-1	51.37
60	125.69	137	52.03
178	122.20	200	52.03
I-RV-R1	122.20	O-RV-R2	52.03
133	121.36	O-AV-1	52.74
318	121.36	16	53.29
323	121.36	TANK-C	53.30
276	117.03	192	54.05

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	36.03	199	0.00
3	7.90	391	0.00
296	6.27	441	0.00
9	5.29	201	0.00
470	4.70	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.41	199	0.00
9	5.29	391	0.00
38	5.29	441	0.00
11	4.24	201	0.00
418	3.27	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	102.97	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	112.92	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	122.20	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	78.29	52.03	0.00

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
FGN-BB	0.19	
R-1	1236.22	KAWC Tank
TANK-A	162.98	Old Tank
TANK-B	-724.67	New Tank - P
TANK-C	-623.52	Chinkapin Ta

NET SYSTEM INFLOW = 1399.40
 NET SYSTEM OUTFLOW = -1348.20
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 0.0001 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.28	TANK-A(1)	-162.98	1154.00	1.00	3384.	6.2	DRAINING
13.74	TANK-B(1)	724.67	1148.00	13.00	190956.	36.1	FILLING
15.32	TANK-C(1)	623.52	1148.00	15.00	431855.	39.5	FILLING

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

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 Time: 0.250
 Time: 0.364

TIME FROM INITIATION OF EPS = 0.3636 HOURS (0.36AM, DAY: 1)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00014

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 O D E N U M B E R S		F L O W R A T E	H E A D	M I N O R	L I N E
H L + M L /	H L /	# 1	# 2		L O S S	L O S S	V E L O .
1 0 0 0	1 0 0 0			(g p m)	(f t)	(f t)	(f t / s)
(f t / f t)	(f t / f t)						
	11	4	7	-84.36	4.00	0.00	2.15
4.21	4.21						
	12	7	10	-41.79	1.88	0.00	1.07
1.15	1.15						
	15	10	12	-62.86	7.19	0.00	1.60
2.44	2.44						
	18	15	333	-116.00	1.60	0.00	1.32
1.05	1.05						
	20	16	15	126.38	0.74	0.00	1.43
1.23	1.23						
	22	155	331	-28.43	0.65	0.00	0.73
0.56	0.56						
	35	153	29	1.76	0.01	0.00	0.04
0.00	0.00						
	36	29	195	0.57	0.00	0.00	0.01
0.00	0.00						
	76	65	277	1.99	0.01	0.00	0.05
0.00	0.00						
	77	65	82	1.97	0.01	0.00	0.05
0.00	0.00						
	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-9.65	0.08	0.00	0.25
0.08	0.08						
	86	76	77	1.50	0.00	0.00	0.04
0.00	0.00						
	87	75	77	14.98	0.37	0.00	0.38
0.17	0.17						
	92	70	76	25.32	1.27	0.00	0.65
0.45	0.45						
	94	97	70	42.01	2.02	0.00	1.07
1.16	1.16						
	96	68	90	33.07	0.59	0.00	0.84
0.74	0.74						
	108	67	68	39.45	2.78	0.00	1.01
1.03	1.03						
	124	90	185	37.77	1.48	0.00	0.96
1.24	1.24						
	134	128	260	18.44	1.35	0.03	0.47
0.39	0.38						
	185	16	122	59.20	0.65	0.00	0.67
0.30	0.30						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						

	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	36.61	2.68	0.00	0.93
0.90	0.90						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-284.92	4.81	0.76	3.23
6.44	5.56						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-21.40	0.17	0.00	0.24
0.05	0.05						
	432	261	67	33.61	2.28	0.00	0.86
1.16	1.16						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
0.3 Pump-1 1231.29 159.31 199.74 40.4 53.10 13. 0.1
** ** 192.3

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE
------	------	----------	-----------	------	----------

NAME PRESSURE (psi)	TITLE	DEMAND (gpm)	GRADE (ft)	ELEVATION (ft)	HEAD (ft)	
69.22	36	Catnip Hill	0.02(0.10)	1149.75	990.00	159.75
109.49	66	Keene 4 way	0.43(0.10)	1157.67	905.00	252.67
107.15	79	James Lane E	0.34(0.10)	1162.27	915.00	247.27
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
135.32	173	Stirling Est	0.30(0.10)	1162.28	850.00	312.28
107.15	182	End of Parke	0.26(0.10)	1162.28	915.00	247.28
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	96	51.31
173	135.32	15	51.51
53	126.56	I-AV-1	51.53
60	125.69	137	52.03
178	122.50	200	52.03
I-RV-R1	122.50	O-RV-R2	52.03
133	121.36	O-AV-1	52.36
318	121.36	TANK-C	53.50
323	121.36	16	53.56
276	117.03	192	54.42

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	35.75	199	0.00
3	7.84	391	0.00
296	6.44	441	0.00
9	5.25	201	0.00

470 4.61 225 0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.56	199	0.00
9	5.25	391	0.00
38	5.25	441	0.00
11	4.21	201	0.00
418	3.24	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.27	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	113.21	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	122.50	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	78.58	52.03	0.00

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
FGN-BB	0.19	
R-1	1231.29	KAWC Tank
TANK-A	126.65	Old Tank
TANK-B	-689.26	New Tank - P
TANK-C	-617.67	Chinkapin Ta

NET SYSTEM INFLOW = 1358.14
 NET SYSTEM OUTFLOW = -1306.94
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 0.3636 hours)

TANK PROJECTED DEPTH	TANK NAME	NET FLOW	WATER ELEVATION	TANK DEPTH	TANK VOLUME	TANK VOLUME	TANK STATUS
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(ft)	(*)	(gpm)	(ft)	(ft)	(gal)	(%)	

0.00	TANK-A(1)	-126.65	1153.00	0.00	0.	0.0	
14.06	TANK-B(1)	689.26	1149.06	14.06	206592.	39.1	FILLING
15.47	TANK-C(1)	617.67	1148.47	15.47	445427.	40.7	FILLING

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

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Tank Filled/Emptied

TIME FROM INITIATION OF EPS = 0.3636 HOURS (0.36AM, DAY: 1)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00015

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
4.22	11	4	7	-84.54	4.01	0.00	2.16
1.15	12	7	10	-41.88	1.89	0.00	1.07
2.45	15	10	12	-62.98	7.22	0.00	1.61
1.14	18	15	333	-121.24	1.73	0.00	1.38
1.82	20	16	15	155.87	1.09	0.00	1.77
0.58	22	155	331	-29.04	0.67	0.00	0.74
0.00	35	153	29	1.76	0.01	0.00	0.04
0.00	36	29	195	0.57	0.00	0.00	0.01
0.00	76	65	277	1.99	0.01	0.00	0.05
0.00	77	65	82	1.97	0.01	0.00	0.05

	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-9.64	0.08	0.00	0.25
0.08	0.08						
	86	76	77	1.52	0.00	0.00	0.04
0.00	0.00						
	87	75	77	14.95	0.37	0.00	0.38
0.17	0.17						
	92	70	76	25.29	1.26	0.00	0.65
0.45	0.45						
	94	97	70	41.95	2.02	0.00	1.07
1.15	1.15						
	96	68	90	33.01	0.59	0.00	0.84
0.74	0.74						
	108	67	68	39.39	2.77	0.00	1.01
1.03	1.03						
	124	90	185	37.70	1.48	0.00	0.96
1.23	1.23						
	134	128	260	18.44	1.34	0.03	0.47
0.39	0.38						
	185	16	122	52.85	0.53	0.00	0.60
0.25	0.25						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	34.53	2.40	0.00	0.88
0.80	0.80						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-291.38	5.01	0.80	3.31
6.72	5.80						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-20.19	0.16	0.00	0.23
0.04	0.04						
	432	261	67	33.56	2.27	0.00	0.86
1.15	1.15						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

TOTAL COST	#PUMPS	#PUMPS	INLET NPSH Avail.	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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Device      Pump-1 IS OPERATING OUT OF RANGE ....
Pump-1      1233.61  159.31  199.55  40.2  52.80  13.  0.0
0.3         **      **  192.3

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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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36      Catnip Hill      0.02(0.10)1149.59  990.00  159.59
69.16
66      Keene 4 way      0.43(0.10)1157.43  905.00  252.43
109.39
79      James Lane E    0.34(0.10)1162.04  915.00  247.04
107.05
131     Drakes Ln EO      0.08(0.10)1090.05  935.00  155.05
67.19
157     KY1267 EOL        0.13(0.10)1090.05  840.00  250.05
108.36
173     Stirling Est      0.30(0.10)1162.04  850.00  312.04
135.22
182     End of Parke     0.26(0.10)1162.04  915.00  247.04
107.05
217     Bark Woods      0.26(0.10)1090.07  960.00  130.07
56.36
233     Hagin EOL        0.12(0.10)1090.05  940.00  150.05
65.02

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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)
322	149.52	96	51.16
173	135.22	15	51.19
53	126.56	O-AV-1	51.19
60	125.69	I-AV-1	51.19
178	122.39	137	52.03
I-RV-R1	122.39	200	52.03
133	121.36	O-RV-R2	52.03
318	121.36	16	53.40
323	121.36	TANK-C	53.50
276	117.03	TANK-A	53.79

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	35.88	199	0.00
3	7.86	391	0.00
296	6.72	441	0.00
9	5.27	201	0.00
11	4.22	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.80	199	0.00
9	5.27	391	0.00
38	5.27	441	0.00
11	4.22	201	0.00
418	3.25	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.16	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	113.08	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	122.39	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	78.45	52.03	0.00

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
FGN-BB	0.19	
R-1	1233.61	KAWC Tank
TANK-B	-659.86	New Tank - P
TANK-C	-522.74	Chinkapin Ta

NET SYSTEM INFLOW = 1233.81
 NET SYSTEM OUTFLOW = -1182.61
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 0.3636 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
14.43	TANK-B(1)	659.86	1149.06	14.06	206595.	39.1	FILLING
15.62	TANK-C(1)	522.74	1148.47	15.47	445429.	40.7	FILLING

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

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Time: 0.500
 Time: 0.750
 Time: 1.000

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 = 1.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
 Time: 1.000

TIME FROM INITIATION OF EPS = 1.0000 HOURS (1.00AM, DAY: 1)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00011

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
3.73	11	4	7	-79.03	3.54	0.00	2.02
1.02	12	7	10	-39.16	1.67	0.00	1.00
2.16	15	10	12	-58.90	6.38	0.00	1.50
1.05	18	15	333	-115.94	1.60	0.00	1.32
2.17	20	16	15	171.53	1.30	0.00	1.95
0.54	22	155	331	-27.78	0.62	0.00	0.71
0.00	35	153	29	1.76	0.01	0.00	0.04
0.00	36	29	195	0.57	0.00	0.00	0.01
0.00	76	65	277	1.99	0.01	0.00	0.05
0.00	77	65	82	1.97	0.01	0.00	0.05
0.00	79	82	83	0.47	0.00	0.00	0.01
0.07	80	67	97	-8.91	0.07	0.00	0.23
0.00	86	76	77	1.65	0.00	0.00	0.04
0.15	87	75	77	13.87	0.32	0.00	0.35
0.40	92	70	76	23.54	1.11	0.00	0.60
1.01	94	97	70	39.12	1.77	0.00	1.00
0.65	96	68	90	30.68	0.52	0.00	0.78
0.90	108	67	68	36.67	2.43	0.00	0.94

	124	90	185	35.03	1.29	0.00	0.89
1.08	1.08						
	134	128	260	17.20	1.18	0.02	0.44
0.34	0.33						
	185	16	122	41.50	0.34	0.00	0.47
0.16	0.16						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	36.42	2.65	0.00	0.93
0.89	0.89						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-279.83	4.65	0.74	3.18
6.23	5.38						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-15.07	0.09	0.00	0.17
0.02	0.02						
	432	261	67	31.25	1.99	0.00	0.80
1.01	1.01						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
0.9 Pump-1 1153.99 149.39 196.03 46.6 62.20 14. 0.2
** ** 182.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE PRESSURE (psi)	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
69.53	36	Catnip Hill	0.02(0.10)	1150.45	990.00	160.45
109.52	66	Keene 4 way	0.43(0.10)	1157.73	905.00	252.73
106.94	79	James Lane E	0.34(0.10)	1161.79	915.00	246.79
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
135.11	173	Stirling Est	0.30(0.10)	1161.79	850.00	311.79
106.94	182	End of Parke	0.26(0.10)	1161.79	915.00	246.79
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	15	51.52
173	135.11	O-AV-1	51.52
53	126.56	I-AV-1	51.52
60	125.69	96	51.58
178	122.52	137	52.03
I-RV-R1	122.52	200	52.03
133	121.36	O-RV-R2	52.03
318	121.36	TANK-C	53.81
323	121.36	16	53.82
276	117.03	TANK-A	54.12

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	31.42	199	0.00
3	6.91	391	0.00
296	6.23	441	0.00
9	4.65	201	0.00
11	3.73	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.38	199	0.00
9	4.65	391	0.00
38	4.65	441	0.00
11	3.73	201	0.00
418	2.88	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.26	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	113.52	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	122.52	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	78.89	52.03	0.00

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
FGN-BB	0.19	
R-1	1153.99	KAWC Tank
TANK-B	-570.96	New Tank - P
TANK-C	-532.02	Chinkapin Ta

NET SYSTEM INFLOW = 1154.18
 NET SYSTEM OUTFLOW = -1102.98
 NET SYSTEM DEMAND = 51.20

TANK STATUS REPORT (time = 1.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.32	TANK-B(1)	570.96	1150.74	15.74	231223.	43.7	FILLING
16.46	TANK-C(1)	532.02	1149.18	16.18	465844.	42.6	FILLING

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

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 Time: 1.250

CHANGES FOR NEXT SIMULATION (time = 1.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 1.250
 Time: 1.500
 Time: 1.750
 Time: 2.000

CHANGES FOR NEXT SIMULATION (time = 2.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000

Time: 2.000

TIME FROM INITIATION OF EPS = 2.0000 HOURS (2.00AM, DAY: 1)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00016

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
4.45	11	4	7	-86.92	4.22	0.00	2.22
1.21	12	7	10	-43.04	1.98	0.00	1.10
2.57	15	10	12	-64.72	7.59	0.00	1.65
1.29	18	15	333	-129.52	1.96	0.00	1.47
3.09	20	16	15	207.56	1.86	0.00	2.36
0.66	22	155	331	-31.15	0.77	0.00	0.80
0.00	35	153	29	1.76	0.01	0.00	0.04
0.00	36	29	195	0.57	0.00	0.00	0.01
0.00	76	65	277	1.99	0.01	0.00	0.05
0.00	77	65	82	1.97	0.01	0.00	0.05
0.00	79	82	83	0.47	0.00	0.00	0.01
0.08	80	67	97	-9.85	0.08	0.00	0.25
0.00	86	76	77	1.51	0.00	0.00	0.04
0.18	87	75	77	15.28	0.38	0.00	0.39
0.47	92	70	76	25.81	1.31	0.00	0.66
1.20	94	97	70	42.79	2.09	0.00	1.09
0.77	96	68	90	33.68	0.61	0.00	0.86
1.06	108	67	68	40.18	2.87	0.00	1.03

	124	90	185	38.46	1.54	0.00	0.98
1.28	1.28						
	134	128	260	18.86	1.40	0.03	0.48
0.40	0.40						
	185	16	122	40.20	0.32	0.00	0.46
0.15	0.15						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	43.13	3.63	0.00	1.10
1.21	1.21						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-313.50	5.74	0.92	3.56
7.71	6.64						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-14.28	0.08	0.00	0.16
0.02	0.02						
	432	261	67	34.23	2.36	0.00	0.87
1.20	1.20						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
1.7 Pump-1 1267.23 167.27 204.82 37.5 48.25 12. 0.2
** ** 200.3

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
70.24	36	Catnip Hill	0.02(0.10)	1152.08	990.00	162.08
111.00	66	Keene 4 way	0.43(0.10)	1161.15	905.00	256.15
108.76	79	James Lane E	0.34(0.10)	1165.99	915.00	250.99
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
136.93	173	Stirling Est	0.30(0.10)	1165.99	850.00	315.99
108.76	182	End of Parke	0.26(0.10)	1165.99	915.00	250.99
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	137	52.03
173	136.93	200	52.03
53	126.56	O-RV-R2	52.03
60	125.69	15	52.25
178	124.00	O-AV-1	52.25
I-RV-R1	124.00	I-AV-1	52.25
133	121.36	96	52.53
318	121.36	TANK-C	54.31
323	121.36	16	54.78
171	117.51	TANK-A	54.85

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	37.84	199	0.00
3	8.29	391	0.00
296	7.71	441	0.00
9	5.54	201	0.00
470	4.60	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	6.64	199	0.00
9	5.54	391	0.00
38	5.54	441	0.00
11	4.45	201	0.00
319	3.42	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	104.79	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	114.48	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	124.00	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	79.85	52.03	0.00

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
FGN-BB	0.19	
R-1	1267.23	KAWC Tank
TANK-B	-598.92	New Tank - P
TANK-C	-617.30	Chinkapin Ta

NET SYSTEM INFLOW = 1267.42
NET SYSTEM OUTFLOW = -1216.22
NET SYSTEM DEMAND = 51.20

TANK STATUS REPORT (time = 2.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
18.60	TANK-B(1)	598.92	1152.98	17.98	264170.	50.0	FILLING
17.65	TANK-C(1)	617.30	1150.32	17.32	498775.	45.6	FILLING

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

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 Time: 2.250

CHANGES FOR NEXT SIMULATION (time = 2.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 2.250
 Time: 2.500
 Time: 2.750
 Time: 3.000

CHANGES FOR NEXT SIMULATION (time = 3.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000

Time: 3.000

TIME FROM INITIATION OF EPS = 3.0000 HOURS (3.00AM, DAY: 1)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00012

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
3.88	11	4	7	-80.81	3.69	0.00	2.06
1.08	12	7	10	-40.40	1.76	0.00	1.03
2.30	15	10	12	-60.95	6.79	0.00	1.56
1.19	18	15	333	-123.78	1.80	0.00	1.40
3.77	20	16	15	231.03	2.26	0.00	2.62
0.56	22	155	331	-28.36	0.64	0.00	0.72
0.02	35	153	29	4.41	0.04	0.00	0.11
0.00	36	29	195	1.43	0.00	0.00	0.04
0.02	76	65	277	4.97	0.06	0.00	0.13
0.02	77	65	82	4.92	0.06	0.00	0.13
0.00	79	82	83	1.18	0.00	0.00	0.03
0.05	80	67	97	-7.49	0.05	0.00	0.19
0.03	86	76	77	5.78	0.03	0.00	0.15
0.14	87	75	77	13.19	0.29	0.00	0.34
0.41	92	70	76	23.95	1.14	0.00	0.61
1.13	94	97	70	41.42	1.97	0.00	1.06
0.65	96	68	90	30.78	0.52	0.00	0.79
0.94	108	67	68	37.50	2.53	0.00	0.96

1.07	124	90	185	34.83	1.28	0.00	0.89
1.07	134	128	260	17.75	1.25	0.02	0.45
0.36	185	16	122	20.55	0.09	0.00	0.23
0.04	224	204	203	0.65	0.00	0.00	0.02
0.00	251	28	153	5.08	0.01	0.00	0.13
0.02	255	64	157	0.34	0.00	0.00	0.01
0.00	257	75	159	0.78	0.00	0.00	0.02
0.00	263	77	160	6.70	0.07	0.00	0.17
0.05	278	226	64	0.91	0.00	0.00	0.02
0.00	281	96	167	44.15	3.79	0.00	1.13
1.27	286	65	168	-5.05	0.04	0.00	0.13
0.03	296	333	2	-299.05	5.26	0.84	3.39
7.06	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	395	200	288	0.36	0.00	0.00	0.01
0.00	396	122	332	-3.95	0.01	0.00	0.04
0.00	432	261	67	32.17	2.10	0.00	0.82
1.07	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
2.6 Pump-1 1201.32 158.34 201.18 42.8 56.84 13. 0.2
** ** 191.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
70.80	36	Catnip Hill	0.06(0.25)	1153.39	990.00	163.39
110.89	66	Keene 4 way	1.08(0.25)	1160.90	905.00	255.90
108.36	79	James Lane E	0.85(0.25)	1165.07	915.00	250.07
67.14	131	Drakes Ln EO	0.20(0.25)	1089.95	935.00	154.95
108.31	157	KY1267 EOL	0.34(0.25)	1089.95	840.00	249.95
136.53	173	Stirling Est	0.76(0.25)	1165.07	850.00	315.07
108.37	182	End of Parke	0.64(0.25)	1165.08	915.00	250.08
56.35	217	Bark Woods	0.64(0.25)	1090.04	960.00	130.04
64.98	233	Hagin EOL	0.29(0.25)	1089.94	940.00	149.94

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)
322	149.48	137	52.01
173	136.53	200	52.01
53	126.51	O-RV-R2	52.01
60	125.64	O-AV-1	52.59
178	123.87	I-AV-1	52.69
I-RV-R1	123.87	15	52.69
318	121.31	96	53.15
133	121.31	TANK-C	54.86
323	121.31	TANK-A	55.19
171	117.38	16	55.40

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	33.25	199	0.00
3	7.47	441	0.00
296	7.06	391	0.00
9	4.91	201	0.00
470	4.14	162	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	6.08	199	0.00
9	4.91	441	0.00
38	4.91	391	0.00
11	3.88	201	0.00
20	3.77	162	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	104.64	73.68	0.00
RV-2	PRV-1	86.70	ACTIVATED	114.97	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	123.87	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	80.45	52.01	0.00

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
FGN-BB	0.49	
R-1	1201.32	KAWC Tank
TANK-A	-42.31	Old Tank
TANK-B	-446.58	New Tank - P
TANK-C	-584.92	Chinkapin Ta

NET SYSTEM INFLOW = 1201.81
 NET SYSTEM OUTFLOW = -1073.81

NET SYSTEM DEMAND = 128.00

TANK STATUS REPORT (time = 3.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.54	TANK-A(1)	42.31	1153.35	0.35	1186.	2.2	FILLING
20.79	TANK-B(1)	446.58	1155.33	20.33	298633.	56.5	FILLING
18.92	TANK-C(1)	584.92	1151.61	18.61	535803.	49.0	FILLING

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

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Time: 3.250

CHANGES FOR NEXT SIMULATION (time = 3.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 3.250
Time: 3.500
Time: 3.750
Time: 4.000

CHANGES FOR NEXT SIMULATION (time = 4.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1142.000
 Time: 4.000

TIME FROM INITIATION OF EPS = 4.0000 HOURS (4.00AM, DAY: 1)

RESULTS OBTAINED AFTER 13 TRIALS: ACCURACY = 0.00006

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
3.38	11	4	7	-74.99	3.21	0.00	1.91
0.97	12	7	10	-38.17	1.59	0.00	0.97
2.09	15	10	12	-57.90	6.18	0.00	1.48
1.04	18	15	333	-115.41	1.58	0.00	1.31
4.15	20	16	15	243.14	2.49	0.00	2.76
0.52	22	155	331	-27.35	0.60	0.00	0.70
0.07	35	153	29	9.30	0.18	0.00	0.24
0.01	36	29	195	3.20	0.01	0.00	0.08
0.07	76	65	277	8.93	0.17	0.00	0.23
0.06	77	65	82	8.78	0.17	0.00	0.22
0.00	79	82	83	1.97	0.01	0.00	0.05
0.01	80	67	97	-3.77	0.01	0.00	0.10
0.09	86	76	77	10.73	0.09	0.00	0.27
0.09	87	75	77	10.65	0.20	0.00	0.27
0.36	92	70	76	22.26	1.00	0.00	0.57
1.13	94	97	70	41.46	1.97	0.00	1.06
0.54	96	68	90	27.93	0.43	0.00	0.71
0.83	108	67	68	35.17	2.25	0.00	0.90

	124	90	185	31.07	1.03	0.00	0.79
0.86	0.86						
	134	128	260	16.87	1.14	0.02	0.43
0.33	0.32						
	185	16	122	-0.83	0.00	0.00	0.01
0.00	0.00						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	44.56	3.85	0.00	1.14
1.29	1.29						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	-279.56	4.64	0.73	3.17
6.22	5.37						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	7.86	0.03	0.00	0.09
0.01	0.01						
	432	261	67	30.59	1.91	0.00	0.78
0.97	0.97						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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Device	Pump-1	IS OPERATING OUT OF RANGE							
3.5	**	1154.69	151.39	197.97	46.6	62.13	14.	0.2	
		**	184.4						

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
71.29	36	Catnip Hill	0.12(0.50)	1154.51	990.00	164.51
110.57	66	Keene 4 way	2.16(0.50)	1160.17	905.00	255.17
107.65	79	James Lane E	1.71(0.50)	1163.43	915.00	248.43
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70
108.20	157	KY1267 EOL	0.67(0.50)	1089.69	840.00	249.69
135.83	173	Stirling Est	1.52(0.50)	1163.44	850.00	313.44
107.66	182	End of Parke	1.29(0.50)	1163.45	915.00	248.45
56.34	217	Bark Woods	1.29(0.50)	1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)	1089.68	940.00	149.68

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)
322	149.36	137	52.00
173	135.83	200	52.00
53	126.40	O-RV-R2	52.00
60	125.53	O-AV-1	53.00
178	123.49	I-AV-1	53.15
I-RV-R1	123.49	15	53.16
133	121.21	96	53.70
318	121.20	TANK-C	55.39
323	121.20	TANK-A	55.59
171	117.03	16	55.97

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	29.48	227	0.00
3	6.92	199	0.00
296	6.22	391	0.00
9	4.38	225	0.00
20	4.15	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.37	227	0.00
9	4.38	199	0.00
38	4.38	391	0.00
20	4.15	225	0.00
11	3.38	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	104.28	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	115.32	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	123.49	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	80.88	52.00	19.60

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
FGN-BB	0.97	
R-1	1154.69	KAWC Tank
TANK-A	-53.98	Old Tank
TANK-B	-282.76	New Tank - P
TANK-C	-562.93	Chinkapin Ta

NET SYSTEM INFLOW = 1155.66
NET SYSTEM OUTFLOW = -899.67

NET SYSTEM DEMAND = 255.99

TANK STATUS REPORT (time = 4.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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1.52	TANK-A(1)	53.98	1154.28	1.28	4334.	7.9	FILLING
22.38	TANK-B(1)	282.76	1157.09	22.09	324505.	61.4	FILLING
20.12	TANK-C(1)	562.93	1152.83	19.83	570958.	52.2	FILLING

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

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Time: 4.250

CHANGES FOR NEXT SIMULATION (time = 4.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 4.250
Time: 4.500
Time: 4.750
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

TANK at node R-1 has a new HGL of 1133.000
 Time: 5.000

TIME FROM INITIATION OF EPS = 5.0000 HOURS (5.00AM, DAY: 1)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00019

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
2.58	11	4	7	-64.86	2.46	0.00	1.66
0.83	12	7	10	-35.02	1.35	0.00	0.89
1.84	15	10	12	-54.06	5.44	0.00	1.38
0.71	18	15	333	-93.42	1.07	0.00	1.06
3.35	20	16	15	216.65	2.01	0.00	2.46
0.73	22	155	331	-32.87	0.85	0.00	0.84
0.38	35	153	29	23.07	0.95	0.00	0.59
0.05	36	29	195	7.88	0.05	0.00	0.20
0.37	76	65	277	22.72	0.97	0.00	0.58
0.36	77	65	82	22.35	0.96	0.00	0.57
0.02	79	82	83	5.08	0.04	0.00	0.13
0.04	80	67	97	6.48	0.04	0.00	0.17
0.34	86	76	77	21.82	0.34	0.00	0.56
0.01	87	75	77	3.58	0.03	0.00	0.09
0.25	92	70	76	18.40	0.70	0.00	0.47
1.23	94	97	70	43.37	2.15	0.00	1.11
0.37	96	68	90	22.82	0.30	0.00	0.58
0.66	108	67	68	31.00	1.78	0.00	0.79

	124	90	185	23.98	0.64	0.00	0.61
0.53	0.53						
	134	128	260	15.65	0.99	0.02	0.40
0.29	0.28						
	185	16	122	-28.04	0.16	0.00	0.32
0.08	0.08						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	38.52	2.94	0.00	0.98
0.98	0.98						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	-228.10	3.18	0.49	2.59
4.25	3.68						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	34.95	0.43	0.00	0.40
0.11	0.11						
	432	261	67	28.21	1.65	0.00	0.72
0.84	0.84						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
4.3 Pump-1 1118.82 142.42 191.88 49.5 65.75 14. 0.2
** ** 175.5

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
71.40	36	Catnip Hill	0.29(1.25)	1154.77	990.00	164.77
109.08	66	Keene 4 way	5.39(1.25)	1156.73	905.00	251.73
104.86	79	James Lane E	4.26(1.25)	1157.00	915.00	242.00
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
133.06	173	Stirling Est	3.81(1.25)	1157.06	850.00	307.06
104.92	182	End of Parke	3.22(1.25)	1157.12	915.00	242.12
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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)
322	148.72	137	51.99
173	133.06	200	51.99
53	125.76	O-RV-R2	52.00
60	124.91	O-AV-1	53.43
178	121.80	I-AV-1	53.49
I-RV-R1	121.80	15	53.49
133	120.62	96	53.78
318	120.60	TANK-C	55.90
323	120.56	TANK-A	56.03
276	116.89	16	56.09

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	24.17	147	0.00
3	6.50	248	0.00
296	4.25	227	0.00
9	3.64	391	0.00
20	3.35	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	3.68	147	0.00
9	3.64	248	0.00
38	3.64	227	0.00
20	3.35	391	0.00
418	2.90	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	102.57	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	114.55	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	121.80	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	80.44	52.00	75.40

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
FGN-BB	2.43	
R-1	1118.82	KAWC Tank
TANK-A	-32.43	Old Tank
TANK-B	26.90	New Tank - P
TANK-C	-475.75	Chinkapin Ta

NET SYSTEM INFLOW = 1148.15
NET SYSTEM OUTFLOW = -508.18

NET SYSTEM DEMAND = 639.98

=====
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 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	291	1154.14	1140.00

Time: 5.000

TIME FROM INITIATION OF EPS = 5.0000 HOURS (5.00AM, DAY: 1)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00031

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

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE HL+ML/ NAME	PIPE HL/ NAME	NODE #1	NODE #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)
1000	1000	11	4	13.99	0.14	0.00	0.36
0.15	0.15	12	7	3.46	0.02	0.00	0.09
0.01	0.01	15	10	3.58	0.04	0.00	0.09
0.01	0.01	18	12	23.65	0.08	0.00	0.27
0.06	0.06	20	15	68.49	0.24	0.00	0.78
0.40	0.40	22	16	-14.33	0.18	0.00	0.37
0.16	0.16	35	155	23.07	0.95	0.00	0.59
0.38	0.38	36	153	7.88	0.05	0.00	0.20
0.05	0.05	76	29	22.72	0.97	0.00	0.58
0.37	0.37	77	65	22.35	0.96	0.00	0.57
0.36	0.36	79	65	5.08	0.04	0.00	0.13
0.02	0.02	82	82				
		83	83				

	80	67	97	15.98	0.20	0.00	0.41
0.19	0.19						
	86	76	77	22.68	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.42	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.03	0.01	0.00	0.05
0.00	0.00						
	94	97	70	20.00	0.51	0.00	0.51
0.29	0.29						
	96	68	90	-8.09	0.04	0.00	0.21
0.05	0.05						
	108	67	68	-3.99	0.04	0.00	0.10
0.01	0.01						
	124	90	185	-10.65	0.14	0.00	0.27
0.12	0.12						
	134	128	260	-0.48	0.00	0.00	0.01
0.00	0.00						
	185	16	122	-72.90	0.96	0.00	0.83
0.45	0.45						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	11.07	0.29	0.00	0.28
0.10	0.10						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	45.31	0.16	0.02	0.51
0.21	0.18						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	43.89	0.66	0.00	0.50
0.17	0.17						
	432	261	67	-1.48	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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71.04	36	Catnip Hill	0.29(1.25)	1153.93	990.00	163.93
106.98	66	Keene 4 way	5.39(1.25)	1151.87	905.00	246.87
101.45	79	James Lane E	4.26(1.25)	1149.11	915.00	234.11
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
129.64	173	Stirling Est	3.81(1.25)	1149.17	850.00	299.17
101.50	182	End of Parke	3.22(1.25)	1149.23	915.00	234.23
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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)
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322	148.72	137	51.99
173	129.64	200	51.99
53	125.76	O-RV-R2	52.00
60	124.91	96	52.56
133	120.62	15	52.93
318	120.60	I-AV-1	52.94
323	120.56	238	53.21
178	119.69	O-AV-1	53.38
I-RV-R1	119.69	16	54.77
276	116.89	192	55.39

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	103	0.00
121	2.93	248	0.00
304	1.47	341	0.00
19	1.06	97	0.00
320	1.05	221	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	103	0.00
348	1.04	248	0.00
320	1.03	341	0.00
263	0.99	97	0.00
121	0.88	221	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.37	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	113.42	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	119.69	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	79.29	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-A	92.38	Old Tank
TANK-B	652.05	New Tank - P
TANK-C	-106.88	Chinkapin Ta

NET SYSTEM INFLOW = 746.85
NET SYSTEM OUTFLOW = -106.88
NET SYSTEM DEMAND = 639.98

TANK STATUS REPORT (time = 5.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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1.88	TANK-A(1)	-92.38	1155.29	2.29	7759.	14.2	DRAINING
22.57	TANK-B(1)	-652.05	1158.23	23.23	341288.	64.5	DRAINING
21.05	TANK-C(1)	106.88	1154.00	21.00	604541.	55.3	FILLING

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

Time: 5.250

CHANGES FOR NEXT SIMULATION (time = 5.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 5.250
Time: 5.500
Time: 5.750
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

TANK at node R-1 has a new HGL of 1126.000
Time: 6.000

TIME FROM INITIATION OF EPS = 6.0000 HOURS (6.00AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00021

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.40	0.40	4	7	23.56	0.38	0.00	0.60
0.03	0.03	7	10	5.87	0.05	0.00	0.15
0.03	0.03	10	12	6.03	0.09	0.00	0.15
0.36	0.36	15	333	65.13	0.55	0.00	0.74
1.15	1.15	16	15	-121.41	0.69	0.00	1.38
0.13	0.13	155	331	-12.88	0.15	0.00	0.33
0.91	0.91	153	29	36.82	2.26	0.00	0.94
0.12	0.12	29	195	12.55	0.12	0.00	0.32
0.89	0.89	65	277	36.55	2.35	0.00	0.93
0.87	0.87	65	82	35.97	2.31	0.00	0.92
0.06	0.06	82	83	8.20	0.09	0.00	0.21
0.48	0.48	67	97	26.15	0.50	0.00	0.67

	86	76	77	36.30	0.88	0.00	0.93
0.88	0.88						
	87	75	77	-5.33	0.05	0.00	0.14
0.03	0.03						
	92	70	76	4.18	0.05	0.00	0.11
0.02	0.02						
	94	97	70	33.08	1.30	0.00	0.84
0.74	0.74						
	96	68	90	-9.43	0.06	0.00	0.24
0.07	0.07						
	108	67	68	-2.51	0.02	0.00	0.06
0.01	0.01						
	124	90	185	-13.32	0.22	0.00	0.34
0.18	0.18						
	134	128	260	1.91	0.02	0.00	0.05
0.01	0.01						
	185	16	122	-49.77	0.47	0.00	0.56
0.22	0.22						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-23.46	1.17	0.00	0.60
0.39	0.39						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	155.43	1.56	0.23	1.76
2.07	1.81						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	53.26	0.94	0.00	0.60
0.25	0.25						
	432	261	67	1.13	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.48	36	Catnip Hill	0.47(2.00)	1152.66	990.00	162.66
104.31	66	Keene 4 way	8.63(2.00)	1145.72	905.00	240.72
97.08	79	James Lane E	6.82(2.00)	1139.03	915.00	224.03
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
125.31	173	Stirling Est	6.10(2.00)	1139.19	850.00	289.19
97.21	182	End of Parke	5.16(2.00)	1139.33	915.00	224.33
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
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322	147.63	238	51.15
173	125.31	96	51.90
53	124.68	137	51.98
60	123.85	200	51.98
133	119.62	O-RV-R2	52.00
318	119.58	15	52.69
323	119.47	I-AV-1	52.69
276	116.78	O-AV-1	52.89
178	116.71	192	54.12
I-RV-R1	116.71	16	54.12

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	248	0.00
304	4.04	187	0.00
121	2.97	213	0.00
263	2.41	103	0.00
296	2.07	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	248	0.00
263	2.37	187	0.00
242	1.83	213	0.00
296	1.81	103	0.00
304	1.62	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.44	73.60	32.85
RV-2	PRV-1	86.70	ACTIVATED	111.17	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	116.71	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	77.59	52.00	126.90

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
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NAME	(gpm)	TITLE
FGN-BB	3.89	
R-1	0.00	KAWC Tank
TANK-A	62.42	Old Tank
TANK-B	656.18	New Tank - P
TANK-C	301.48	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 1023.96

TANK STATUS REPORT (time = 6.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.83	TANK-A(1)	-62.42	1154.10	1.10	3738.	6.8	DRAINING
20.16	TANK-B(1)	-656.18	1155.83	20.83	305974.	57.9	DRAINING
20.88	TANK-C(1)	-301.48	1154.04	21.04	605623.	55.4	DRAINING

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

=====
Time: 6.250

CHANGES FOR NEXT SIMULATION (time = 6.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 6.250
Time: 6.500
Time: 6.750
Time: 7.000

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 = 7.0000
hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1137.000
Time: 7.000

TIME FROM INITIATION OF EPS = 7.0000 HOURS (7.00AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00023

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)
0.31	0.31	4	7	20.75	0.30	0.00	0.53
0.02	0.02	7	10	5.17	0.04	0.00	0.13
0.03	0.03	10	12	5.31	0.07	0.00	0.14
0.35	0.35	15	333	63.86	0.53	0.00	0.72
1.64	1.64	16	15	-147.45	0.99	0.00	1.67
0.08	0.08	155	331	-9.88	0.09	0.00	0.25
0.71	0.71	153	29	32.23	1.77	0.00	0.82
0.10	0.10	29	195	10.99	0.10	0.00	0.28
0.70	0.70	65	277	31.95	1.83	0.00	0.82
0.68	0.68	65	82	31.44	1.80	0.00	0.80
0.04	0.04	82	83	7.16	0.07	0.00	0.18
0.37	0.37	67	97	22.86	0.39	0.00	0.58
0.69	0.69	76	77	31.75	0.69	0.00	0.81

	87	75	77	-4.66	0.04	0.00	0.12
0.02	0.02						
	92	70	76	3.71	0.04	0.00	0.09
0.01	0.01						
	94	97	70	28.99	1.02	0.00	0.74
0.58	0.58						
	96	68	90	-7.82	0.04	0.00	0.20
0.05	0.05						
	108	67	68	-1.75	0.01	0.00	0.04
0.00	0.00						
	124	90	185	-11.20	0.16	0.00	0.29
0.13	0.13						
	134	128	260	1.83	0.02	0.00	0.05
0.01	0.01						
	185	16	122	-29.91	0.18	0.00	0.34
0.09	0.09						
	224	204	203	3.76	0.02	0.00	0.10
0.01	0.01						
	251	28	153	36.92	0.27	0.02	0.94
0.96	0.91						
	255	64	157	2.35	0.02	0.00	0.06
0.01	0.01						
	257	75	159	5.44	0.02	0.00	0.14
0.03	0.03						
	263	77	160	46.90	2.59	0.04	1.20
1.88	1.85						
	278	226	64	4.41	0.02	0.00	0.11
0.02	0.02						
	281	96	167	-27.36	1.56	0.00	0.70
0.52	0.52						
	286	65	168	-26.47	0.77	0.01	0.68
0.65	0.64						
	296	333	2	154.48	1.55	0.22	1.75
2.05	1.79						
	336-XX	331	115				
	382	277	204	9.20	0.11	0.00	0.23
0.07	0.07						
	395	200	288	9.03	0.26	0.01	0.23
0.07	0.07						
	396	122	332	43.84	0.66	0.00	0.50
0.17	0.17						
	432	261	67	1.38	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

70.15	36	Catnip Hill	0.41(1.75)	1151.89	990.00	161.89
104.44	66	Keene 4 way	7.55(1.75)	1146.02	905.00	241.02
97.85	79	James Lane E	5.97(1.75)	1140.80	915.00	225.80
65.80	131	Drakes Ln EO	1.41(1.75)	1086.85	935.00	151.85
106.94	157	KY1267 EOL	2.35(1.75)	1086.80	840.00	246.80
126.07	173	Stirling Est	5.33(1.75)	1140.92	850.00	290.92
97.95	182	End of Parke	4.51(1.75)	1141.03	915.00	226.03
56.26	217	Bark Woods	4.51(1.75)	1089.83	960.00	129.83
63.54	233	Hagin EOL	2.05(1.75)	1086.64	940.00	146.64

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)
322	148.04	238	51.07
173	126.07	96	51.42

53	125.08	137	51.99
60	124.25	200	51.99
133	119.99	O-RV-R2	52.00
318	119.96	15	52.31
323	119.88	I-AV-1	52.31
178	116.96	O-AV-1	52.44
I-RV-R1	116.96	192	53.46
276	116.82	16	53.62

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	5.35	187	0.00
304	3.05	248	0.00
296	2.05	213	0.00
263	1.88	227	0.00
121	1.75	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.77	187	0.00
263	1.85	248	0.00
296	1.79	213	0.00
20	1.64	227	0.00
242	1.43	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.67	73.60	27.71
RV-2	PRV-1	86.70	ACTIVATED	111.23	86.70	74.55
RV-R1	PRV-1	93.20	ACTIVATED	116.96	93.20	58.34
RV-R2	PRV-1	52.00	ACTIVATED	77.44	52.00	109.91

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

FGN-BB	3.40	
R-1	0.00	KAWC Tank
TANK-A	48.68	Old Tank
TANK-B	500.53	New Tank - P
TANK-C	343.35	Chinkapin Ta

NET SYSTEM INFLOW = 895.97
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 895.97

TANK STATUS REPORT (time = 7.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	-48.68	1153.03	0.03	115.	0.2	DRAINING
18.21	TANK-B(1)	-500.53	1153.29	18.29	268618.	50.8	DRAINING
20.31	TANK-C(1)	-343.35	1153.33	20.33	585398.	53.5	DRAINING

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

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Time: 7.039

TIME FROM INITIATION OF EPS = 7.0393 HOURS (7.04AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00023

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

0.31	11	4	7	20.75	0.30	0.00	0.53
	0.31						

	12	7	10	5.17	0.04	0.00	0.13
0.02	0.02						
	15	10	12	5.31	0.07	0.00	0.14
0.03	0.03						
	18	15	333	64.13	0.53	0.00	0.73
0.35	0.35						
	20	16	15	-148.97	1.00	0.00	1.69
1.67	1.67						
	22	155	331	-9.84	0.09	0.00	0.25
0.08	0.08						
	35	153	29	32.23	1.77	0.00	0.82
0.71	0.71						
	36	29	195	10.99	0.10	0.00	0.28
0.10	0.10						
	76	65	277	31.95	1.83	0.00	0.82
0.70	0.70						
	77	65	82	31.44	1.80	0.00	0.80
0.68	0.68						
	79	82	83	7.16	0.07	0.00	0.18
0.04	0.04						
	80	67	97	22.86	0.39	0.00	0.58
0.37	0.37						
	86	76	77	31.75	0.69	0.00	0.81
0.69	0.69						
	87	75	77	-4.66	0.04	0.00	0.12
0.02	0.02						
	92	70	76	3.71	0.04	0.00	0.09
0.01	0.01						
	94	97	70	28.99	1.02	0.00	0.74
0.58	0.58						
	96	68	90	-7.81	0.04	0.00	0.20
0.05	0.05						
	108	67	68	-1.73	0.01	0.00	0.04
0.00	0.00						
	124	90	185	-11.19	0.16	0.00	0.29
0.13	0.13						
	134	128	260	1.84	0.02	0.00	0.05
0.01	0.01						
	185	16	122	-29.40	0.18	0.00	0.33
0.08	0.08						
	224	204	203	3.76	0.02	0.00	0.10
0.01	0.01						
	251	28	153	36.92	0.27	0.02	0.94
0.96	0.91						
	255	64	157	2.35	0.02	0.00	0.06
0.01	0.01						
	257	75	159	5.44	0.02	0.00	0.14
0.03	0.03						
	263	77	160	46.90	2.59	0.04	1.20
1.88	1.85						
	278	226	64	4.41	0.02	0.00	0.11
0.02	0.02						
	281	96	167	-27.60	1.59	0.00	0.70
0.53	0.53						
	286	65	168	-26.47	0.77	0.01	0.68
0.65	0.64						

	296	333	2	155.19	1.56	0.23	1.76
2.07	1.81						
	336-XX	331	115				
	382	277	204	9.20	0.11	0.00	0.23
0.07	0.07						
	395	200	288	9.03	0.26	0.01	0.23
0.07	0.07						
	396	122	332	43.74	0.65	0.00	0.50
0.17	0.17						
	432	261	67	1.39	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

70.14	36	Catnip Hill	0.41(1.75)	1151.85	990.00	161.85
104.42	66	Keene 4 way	7.55(1.75)	1145.96	905.00	240.96
97.82	79	James Lane E	5.97(1.75)	1140.74	915.00	225.74
65.80	131	Drakes Ln EO	1.41(1.75)	1086.85	935.00	151.85

106.94	157	KY1267 EOL	2.35(1.75)1086.80	840.00	246.80
126.04	173	Stirling Est	5.33(1.75)1140.86	850.00	290.86
97.92	182	End of Parke	4.51(1.75)1140.97	915.00	225.97
56.26	217	Bark Woods	4.51(1.75)1089.83	960.00	129.83
63.54	233	Hagin EOL	2.05(1.75)1086.64	940.00	146.64

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)
322	148.04	238	51.04
173	126.04	96	51.40
53	125.08	137	51.99
60	124.25	200	51.99
133	119.99	O-RV-R2	52.00
318	119.96	15	52.29
323	119.88	I-AV-1	52.30
178	116.93	O-AV-1	52.42
I-RV-R1	116.93	192	53.43
276	116.82	16	53.59

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	5.35	187	0.00
304	3.05	248	0.00
296	2.07	213	0.00
263	1.88	227	0.00
121	1.73	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.77	187	0.00
263	1.85	248	0.00
296	1.81	213	0.00
20	1.67	227	0.00
242	1.43	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.64	73.60	27.71
RV-2	PRV-1	86.70	ACTIVATED	111.21	86.70	74.55
RV-R1	PRV-1	93.20	ACTIVATED	116.93	93.20	58.34
RV-R2	PRV-1	52.00	ACTIVATED	77.41	52.00	109.91

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
FGN-BB	3.40	
R-1	0.00	KAWC Tank
TANK-A	48.92	Old Tank
TANK-B	497.81	New Tank - P
TANK-C	345.83	Chinkapin Ta

NET SYSTEM INFLOW = 895.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 895.97

T A N K S T A T U S R E P O R T (time = 7.0393 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	-48.92	1153.00	0.00	0.	0.0	
18.21	TANK-B(1)	-497.81	1153.21	18.21	267437.	50.6	DRAINING
20.30	TANK-C(1)	-345.83	1153.31	20.31	584588.	53.4	DRAINING

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

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Tank Filled/Emptied

TIME FROM INITIATION OF EPS = 7.0394 HOURS (7.04AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00023

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ N A M E	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)

1000	1000						
(ft/ft)	(ft/ft)						
0.31	11	4	7	20.73	0.30	0.00	0.53
0.02	0.31						
0.03	12	7	10	5.17	0.04	0.00	0.13
0.33	0.02						
1.51	15	10	12	5.30	0.07	0.00	0.14
0.08	0.03						
0.71	18	15	333	61.78	0.50	0.00	0.70
0.10	0.33						
0.68	20	16	15	-140.97	0.91	0.00	1.60
0.04	1.51						
0.37	22	155	331	-9.86	0.09	0.00	0.25
0.69	0.08						
0.02	35	153	29	32.23	1.77	0.00	0.82
0.01	0.71						
0.58	36	29	195	10.99	0.10	0.00	0.28
0.05	0.10						
	76	65	277	31.95	1.83	0.00	0.82
	0.70						
	77	65	82	31.44	1.80	0.00	0.80
	0.68						
	79	82	83	7.16	0.07	0.00	0.18
	0.04						
	80	67	97	22.86	0.39	0.00	0.58
	0.37						
	86	76	77	31.75	0.69	0.00	0.81
	0.69						
	87	75	77	-4.66	0.04	0.00	0.12
	0.02						
	92	70	76	3.69	0.04	0.00	0.09
	0.01						
	94	97	70	28.98	1.02	0.00	0.74
	0.58						
	96	68	90	-7.86	0.04	0.00	0.20
	0.05						

	108	67	68	-1.79	0.01	0.00	0.05
0.00	0.00						
	124	90	185	-11.25	0.16	0.00	0.29
0.13	0.13						
	134	128	260	1.82	0.02	0.00	0.05
0.01	0.01						
	185	16	122	-31.44	0.20	0.00	0.36
0.09	0.09						
	224	204	203	3.76	0.02	0.00	0.10
0.01	0.01						
	251	28	153	36.92	0.27	0.02	0.94
0.96	0.91						
	255	64	157	2.35	0.02	0.00	0.06
0.01	0.01						
	257	75	159	5.44	0.02	0.00	0.14
0.03	0.03						
	263	77	160	46.90	2.59	0.04	1.20
1.88	1.85						
	278	226	64	4.41	0.02	0.00	0.11
0.02	0.02						
	281	96	167	-28.22	1.65	0.00	0.72
0.55	0.55						
	286	65	168	-26.47	0.77	0.01	0.68
0.65	0.64						
	296	333	2	152.30	1.51	0.22	1.73
2.00	1.74						
	336-XX	331	115				
	382	277	204	9.20	0.11	0.00	0.23
0.07	0.07						
	395	200	288	9.03	0.26	0.01	0.23
0.07	0.07						
	396	122	332	43.84	0.66	0.00	0.50
0.17	0.17						
	432	261	67	1.34	0.01	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
70.12	36	Catnip Hill	0.41(1.75)	1151.81	990.00	161.81
104.38	66	Keene 4 way	7.55(1.75)	1145.88	905.00	240.88
97.79	79	James Lane E	5.97(1.75)	1140.66	915.00	225.66
65.80	131	Drakes Ln EO	1.41(1.75)	1086.85	935.00	151.85
106.94	157	KY1267 EOL	2.35(1.75)	1086.80	840.00	246.80
126.01	173	Stirling Est	5.33(1.75)	1140.78	850.00	290.78
97.89	182	End of Parke	4.51(1.75)	1140.90	915.00	225.90
56.26	217	Bark Woods	4.51(1.75)	1089.83	960.00	129.83
63.54	233	Hagin EOL	2.05(1.75)	1086.64	940.00	146.64

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)
322	148.04	238	51.01
173	126.01	96	51.36
53	125.08	137	51.99
60	124.25	200	51.99
133	119.99	O-RV-R2	52.00
318	119.96	15	52.21
323	119.88	O-AV-1	52.21
178	116.90	I-AV-1	52.21
I-RV-R1	116.90	192	53.41
276	116.82	16	53.55

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	5.35	187	0.00
304	3.05	248	0.00
296	2.00	213	0.00
263	1.88	103	0.00
470	1.81	227	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.77	187	0.00
263	1.85	248	0.00
296	1.74	213	0.00
20	1.51	103	0.00
242	1.43	227	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.61	73.60	27.71
RV-2	PRV-1	86.70	ACTIVATED	111.18	86.70	74.55
RV-R1	PRV-1	93.20	ACTIVATED	116.90	93.20	58.34
RV-R2	PRV-1	52.00	ACTIVATED	77.38	52.00	109.91

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
FGN-BB	3.40	
R-1	0.00	KAWC Tank
TANK-B	507.57	New Tank - P
TANK-C	384.99	Chinkapin Ta

NET SYSTEM INFLOW = 895.97
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 895.97

TANK STATUS REPORT (time = 7.0394 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
17.77	TANK-B(1)	-507.57	1153.21	18.21	267434.	50.6	DRAINING
20.14	TANK-C(1)	-384.99	1153.30	20.30	584586.	53.4	DRAINING

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

=====
 Time: 7.250

CHANGES FOR NEXT SIMULATION (time = 7.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 7.250
 Time: 7.500
 Time: 7.750
 Time: 8.000

CHANGES FOR NEXT SIMULATION (time = 8.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
 Time: 8.000

TIME FROM INITIATION OF EPS = 8.0000 HOURS (8.00AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00036

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ N A M E	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)
0.13	11	4	7	13.12	0.13	0.00	0.33
0.01	12	7	10	3.27	0.02	0.00	0.08
0.01	15	10	12	3.35	0.03	0.00	0.09
0.20	18	15	333	47.23	0.30	0.00	0.54
1.39	20	16	15	-134.73	0.83	0.00	1.53
0.02	22	155	331	-5.04	0.03	0.00	0.13
0.30	35	153	29	20.33	0.75	0.00	0.52
0.04	36	29	195	6.96	0.04	0.00	0.18
0.29	76	65	277	19.93	0.76	0.00	0.51
0.28	77	65	82	19.60	0.75	0.00	0.50
0.02	79	82	83	4.45	0.03	0.00	0.11
0.16	80	67	97	14.27	0.16	0.00	0.36
0.29	86	76	77	19.92	0.29	0.00	0.51
0.01	87	75	77	-2.95	0.02	0.00	0.08
0.01	92	70	76	2.28	0.01	0.00	0.06
0.24	94	97	70	18.15	0.43	0.00	0.46
0.02	96	68	90	-4.61	0.02	0.00	0.12
0.00	108	67	68	-0.80	0.00	0.00	0.02
0.05	124	90	185	-6.71	0.06	0.00	0.17

	134	128	260	1.25	0.01	0.00	0.03
0.00	0.00						
	185	16	122	-2.96	0.00	0.00	0.03
0.00	0.00						
	224	204	203	2.33	0.01	0.00	0.06
0.01	0.01						
	251	28	153	23.28	0.12	0.01	0.59
0.41	0.39						
	255	64	157	1.47	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.42	0.01	0.00	0.09
0.01	0.01						
	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.66	0.01	0.00	0.07
0.01	0.01						
	281	96	167	-25.36	1.36	0.00	0.65
0.45	0.45						
	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						
	296	333	2	118.36	0.94	0.13	1.34
1.25	1.09						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	24.91	0.23	0.00	0.28
0.06	0.06						
	432	261	67	1.12	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
69.98	36	Catnip Hill	0.26(1.10)	1151.50	990.00	161.50
105.55	66	Keene 4 way	4.75(1.10)	1148.59	905.00	243.59
100.27	79	James Lane E	3.75(1.10)	1146.39	915.00	231.39
66.59	131	Drakes Ln EO	0.88(1.10)	1088.67	935.00	153.67
107.75	157	KY1267 EOL	1.47(1.10)	1088.65	840.00	248.65
128.46	173	Stirling Est	3.35(1.10)	1146.44	850.00	296.44
100.31	182	End of Parke	2.84(1.10)	1146.49	915.00	231.49
56.31	217	Bark Woods	2.84(1.10)	1089.96	960.00	129.96
64.39	233	Hagin EOL	1.29(1.10)	1088.58	940.00	148.58

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)
322	148.89	96	51.15
173	128.46	238	51.73
53	125.92	15	51.94
60	125.07	O-AV-1	51.94
133	120.77	I-AV-1	51.94
318	120.75	137	52.00
323	120.72	200	52.00
178	118.31	O-RV-R2	52.00
I-RV-R1	118.31	192	53.18
276	116.90	16	53.32

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000	PIPE NUMBER	MINIMUM HL+ML/1000
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	(ft/ft)		(ft/ft)
303	2.65	187	0.00
20	1.39	227	0.00
470	1.31	248	0.00
296	1.25	437	0.00
304	1.10	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.41	187	0.00
20	1.39	227	0.00
296	1.09	248	0.00
263	0.78	437	0.00
242	0.61	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	98.98	73.60	13.31
RV-2	PRV-1	86.70	ACTIVATED	112.12	86.70	51.42
RV-R1	PRV-1	93.20	ACTIVATED	118.31	93.20	40.47
RV-R2	PRV-1	52.00	ACTIVATED	77.90	52.00	64.84

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
FGN-BB	2.14	
R-1	0.00	KAWC Tank
TANK-B	234.01	New Tank - P
TANK-C	327.03	Chinkapin Ta

NET SYSTEM INFLOW = 563.18
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 8.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.06	TANK-B(1)	-234.01	1151.30	16.30	239429.	45.3	DRAINING
19.32	TANK-C(1)	-327.03	1152.49	19.49	561148.	51.3	DRAINING

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

=====
Time: 8.250

CHANGES FOR NEXT SIMULATION (time = 8.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 8.250
Time: 8.500
Time: 8.750
Time: 9.000

CHANGES FOR NEXT SIMULATION (time = 9.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1163.000
Time: 9.000

TIME FROM INITIATION OF EPS = 9.0000 HOURS (9.00AM, DAY: 1)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00051

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
1.20	1.20	4	7	-42.89	1.14	0.00	1.09
0.38	0.38	7	10	-23.02	0.62	0.00	0.59
0.85	0.85	10	12	-35.49	2.50	0.00	0.91
0.18	0.18	15	333	-44.58	0.27	0.00	0.51
0.32	0.32	16	15	-61.24	0.19	0.00	0.69
0.14	0.14	155	331	-13.54	0.16	0.00	0.35
0.15	0.15	153	29	13.99	0.38	0.00	0.36
0.02	0.02	29	195	4.83	0.02	0.00	0.12
0.14	0.14	65	277	13.32	0.36	0.00	0.34
0.13	0.13	65	82	13.08	0.36	0.00	0.33
0.01	0.01	82	83	2.93	0.01	0.00	0.07
0.01	0.01	67	97	3.26	0.01	0.00	0.08
0.13	0.13	76	77	12.78	0.13	0.00	0.33
0.01	0.01	75	77	3.40	0.02	0.00	0.09
0.14	0.14	70	76	13.26	0.38	0.00	0.34
0.60	0.60	97	70	29.49	1.05	0.00	0.75
0.20	0.20	68	90	16.23	0.16	0.00	0.41
0.34	0.34	67	68	21.81	0.93	0.00	0.56
0.29	0.29	90	185	17.26	0.35	0.00	0.44
0.14	0.14	128	260	10.66	0.49	0.01	0.27
0.24	0.24	16	122	52.30	0.52	0.00	0.59

NODE NAME PRESSURE (psi)	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
--					
69.95	36 Catnip Hill	0.18(0.75)	1151.43	990.00	161.43
106.62	66 Keene 4 way	3.24(0.75)	1151.05	905.00	246.05
102.39	79 James Lane E	2.56(0.75)	1151.29	915.00	236.29
66.88	131 Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35
108.04	157 KY1267 EOL	1.00(0.75)	1089.33	840.00	249.33
130.57	173 Stirling Est	2.29(0.75)	1151.31	850.00	301.31
102.41	182 End of Parke	1.93(0.75)	1151.34	915.00	236.34
56.33	217 Bark Woods	1.93(0.75)	1090.00	960.00	130.00
64.70	233 Hagin EOL	0.88(0.75)	1089.30	940.00	149.30

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)
322	149.20	96	51.37
173	130.57	15	51.92
53	126.23	O-AV-1	51.92
60	125.37	I-AV-1	51.92
133	121.05	137	52.00
318	121.05	200	52.00
323	121.03	O-RV-R2	52.00
178	119.47	192	53.45
I-RV-R1	119.47	16	53.57
276	116.93	TANK-A	54.52

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	10.67	132	0.00
3	2.85	227	0.00

303	1.74	465	0.00
9	1.69	396	0.00
418	1.31	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.69	132	0.00
38	1.69	227	0.00
418	1.31	465	0.00
11	1.20	396	0.00
3	1.09	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.15	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	112.72	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	119.47	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	78.35	52.00	39.54

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
FGN-BB	1.46	
R-1	731.64	KAWC Tank
TANK-B	-346.39	New Tank - P
TANK-C	-2.72	Chinkapin Ta

NET SYSTEM INFLOW = 733.10
 NET SYSTEM OUTFLOW = -349.11
 NET SYSTEM DEMAND = 383.99

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

TANK PROJECTED DEPTH	TANK NAME	NET FLOW	WATER ELEVATION	TANK DEPTH	TANK VOLUME	TANK VOLUME	TANK STATUS
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(ft)	(*)	(gpm)	(ft)	(ft)	(gal)	(%)	

0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
15.74	TANK-B(1)	346.39	1150.39	15.39	226072.	42.8	FILLING
18.80	TANK-C(1)	2.72	1151.80	18.80	541192.	49.5	FILLING

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

=====
 ===
 Time: 9.250

CHANGES FOR NEXT SIMULATION (time = 9.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 9.250
 Time: 9.500
 Time: 9.750
 Time: 10.000

CHANGES FOR NEXT SIMULATION (time = 10.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1161.000
 Time: 10.000

TIME FROM INITIATION OF EPS = 10.0000 HOURS (10.00AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00066

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E		N O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.94	11	4	7	-37.46	0.89	0.00	0.96
0.30	12	7	10	-20.33	0.49	0.00	0.52
0.68	15	10	12	-31.43	1.99	0.00	0.80
0.16	18	15	333	-42.49	0.25	0.00	0.48
0.00	20	16	15	-6.05	0.00	0.00	0.07
0.15	22	155	331	-13.81	0.17	0.00	0.35
0.15	35	153	29	13.99	0.38	0.00	0.36
0.02	36	29	195	4.83	0.02	0.00	0.12
0.14	76	65	277	13.32	0.36	0.00	0.34
0.13	77	65	82	13.08	0.36	0.00	0.33
0.01	79	82	83	2.93	0.01	0.00	0.07
0.01	80	67	97	3.80	0.01	0.00	0.10
0.13	86	76	77	12.95	0.13	0.00	0.33
0.00	87	75	77	2.11	0.01	0.00	0.05
0.10	92	70	76	11.02	0.27	0.00	0.28
0.47	94	97	70	25.96	0.83	0.00	0.66
0.15	96	68	90	13.71	0.12	0.00	0.35
0.26	108	67	68	18.64	0.69	0.00	0.48
0.21	124	90	185	14.43	0.25	0.00	0.37
0.11	134	128	260	9.28	0.38	0.01	0.24
0.09	185	16	122	30.89	0.20	0.00	0.35
0.00	224	204	203	1.52	0.00	0.00	0.04
0.20	251	28	153	16.00	0.06	0.00	0.41
	0.19						

	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	2.36	0.02	0.00	0.06
0.01	0.01						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-99.80	0.69	0.09	1.13
0.91	0.80						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	10.75	0.05	0.00	0.12
0.01	0.01						
	432	261	67	16.96	0.64	0.00	0.43
0.33	0.33						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 212 337

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

TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE NAME	NODE TITLE	EXTERNAL DEMAND	HYDRAULIC GRADE	NODE ELEVATION	PRESSURE HEAD
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(psi)			(gpm)	(ft)	(ft)	(ft)
--						
	36	Catnip Hill	0.18(0.75)	1151.75	990.00	161.75
70.09						
	66	Keene 4 way	3.24(0.75)	1151.54	905.00	246.54
106.83						
	79	James Lane E	2.56(0.75)	1151.49	915.00	236.49
102.48						
	131	Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35
66.88						
	157	KY1267 EOL	1.00(0.75)	1089.33	840.00	249.33
108.04						
	173	Stirling Est	2.29(0.75)	1151.52	850.00	301.52
130.66						
	182	End of Parke	1.93(0.75)	1151.54	915.00	236.54
102.50						
	217	Bark Woods	1.93(0.75)	1090.00	960.00	130.00
56.33						
	233	Hagin EOL	0.88(0.75)	1089.30	940.00	149.30
64.70						

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)
322	149.20	96	51.53
173	130.66	15	51.99
53	126.23	O-AV-1	51.99
60	125.37	I-AV-1	51.99
133	121.05	137	52.00
318	121.05	200	52.00
323	121.03	O-RV-R2	52.00
178	119.68	16	53.72
I-RV-R1	119.68	192	53.77
276	116.93	TANK-A	54.59

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	8.29	227	0.00
3	2.28	225	0.00
303	1.74	391	0.00
9	1.34	313	0.00
418	1.07	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.34	227	0.00
38	1.34	225	0.00
418	1.07	391	0.00
303	0.94	313	0.00
11	0.94	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.35	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	112.95	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	119.68	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	78.58	52.00	39.54

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
FGN-BB	1.46	
R-1	652.18	KAWC Tank
TANK-B	-193.91	New Tank - P
TANK-C	-75.74	Chinkapin Ta

NET SYSTEM INFLOW = 653.64
NET SYSTEM OUTFLOW = -269.65
NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 10.0000 hours)

PROJECTED DEPTH	TANK NAME	NET FLOW	WATER ELEVATION	TANK DEPTH	TANK VOLUME	TANK VOLUME	TANK STATUS
(ft)	(*)	(gpm)	(ft)	(ft)	(gal)	(%)	

0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.81	TANK-B(1)	193.91	1151.61	16.61	244027.	46.1	FILLING
18.93	TANK-C(1)	75.74	1151.89	18.89	543775.	49.7	FILLING

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

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 Time: 10.250

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 = 10.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 10.250
 Time: 10.500
 Time: 10.750
 Time: 11.000

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 = 11.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000
 Time: 11.000

TIME FROM INITIATION OF EPS = 11.0000 HOURS (11.00AM, DAY: 1)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00025

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 O D E N U M B E R S		F L O W R A T E	H E A D	M I N O R	L I N E
H L + M L /	H L /	# 1	# 2		L O S S	L O S S	V E L O .
1 0 0 0	1 0 0 0			(g p m)	(f t)	(f t)	(f t / s)
(f t / f t)	(f t / f t)						
	11	4	7	-26.76	0.48	0.00	0.68
0.50	0.50						
	12	7	10	-16.88	0.35	0.00	0.43
0.21	0.21						
	15	10	12	-27.09	1.51	0.00	0.69
0.51	0.51						
	18	15	333	-22.50	0.08	0.00	0.26
0.05	0.05						
	20	16	15	-21.63	0.03	0.00	0.25
0.05	0.05						
	22	155	331	-17.94	0.28	0.00	0.46
0.24	0.24						
	35	153	29	27.65	1.33	0.00	0.71
0.53	0.53						
	36	29	195	9.43	0.07	0.00	0.24
0.07	0.07						
	76	65	277	27.34	1.37	0.00	0.70
0.52	0.52						
	77	65	82	26.90	1.35	0.00	0.69
0.51	0.51						
	79	82	83	6.12	0.05	0.00	0.16
0.03	0.03						
	80	67	97	15.29	0.18	0.00	0.39
0.18	0.18						
	86	76	77	27.32	0.52	0.00	0.70
0.52	0.52						
	87	75	77	-2.74	0.02	0.00	0.07
0.01	0.01						
	92	70	76	7.81	0.14	0.00	0.20
0.05	0.05						
	94	97	70	30.74	1.13	0.00	0.78
0.65	0.65						
	96	68	90	7.45	0.04	0.00	0.19
0.05	0.05						
	108	67	68	12.90	0.35	0.00	0.33
0.13	0.13						
	124	90	185	4.72	0.03	0.00	0.12
0.03	0.03						
	134	128	260	7.75	0.27	0.00	0.20
0.08	0.08						
	185	16	122	6.11	0.01	0.00	0.07
0.00	0.00						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						

	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						
	281	96	167	-7.21	0.13	0.00	0.18
0.04	0.04						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						
	296	333	2	-52.61	0.21	0.03	0.60
0.27	0.24						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						
	396	122	332	35.09	0.43	0.00	0.40
0.11	0.11						
	432	261	67	13.35	0.41	0.00	0.34
0.21	0.21						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

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)
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70.01	36	Catnip Hill	0.35(1.50)	1151.57	990.00 161.57
105.90	66	Keene 4 way	6.47(1.50)	1149.38	905.00 244.38
100.31	79	James Lane E	5.12(1.50)	1146.50	915.00 231.50
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00 152.64
107.29	157	KY1267 EOL	2.01(1.50)	1087.59	840.00 247.59
128.52	173	Stirling Est	4.57(1.50)	1146.59	850.00 296.59
100.39	182	End of Parke	3.87(1.50)	1146.67	915.00 231.67
56.28	217	Bark Woods	3.87(1.50)	1089.89	960.00 129.89
63.91	233	Hagin EOL	1.76(1.50)	1087.48	940.00 147.48

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)
322	148.41	96	51.55
173	128.52	137	51.99
53	125.45	200	51.99
60	124.60	O-RV-R2	52.00
133	120.33	15	52.05
318	120.30	O-AV-1	52.05
323	120.24	I-AV-1	52.05
178	118.52	16	53.77
I-RV-R1	118.52	192	53.81
276	116.86	238	54.38

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	5.38	248	0.00
303	4.17	402	0.00
304	2.20	354	0.00
3	1.99	227	0.00
263	1.41	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.18	248	0.00
263	1.39	402	0.00
242	1.08	354	0.00
418	1.01	227	0.00
304	0.91	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.28	73.60	22.41
RV-2	PRV-1	86.70	ACTIVATED	111.92	86.70	65.44
RV-R1	PRV-1	93.20	ACTIVATED	118.52	93.20	51.25
RV-R2	PRV-1	52.00	ACTIVATED	77.95	52.00	92.77

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
FGN-BB	2.91	
R-1	608.76	KAWC Tank
TANK-B	139.14	New Tank - P
TANK-C	17.15	Chinkapin Ta

NET SYSTEM INFLOW = 767.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 767.97

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

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY

17.13 TANK-B(1) -139.14 1152.27 17.27 253692. 48.0 DRAINING
 19.09 TANK-C(1) -17.15 1152.10 19.10 549942. 50.3 DRAINING

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

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 Time: 11.250

CHANGES FOR NEXT SIMULATION (time = 11.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 11.250
 Time: 11.500
 Time: 11.750
 Time: 12.000

CHANGES FOR NEXT SIMULATION (time = 12.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1156.000
 Time: 12.000

TIME FROM INITIATION OF EPS = 12.0000 HOURS (12.00AM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00053

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ HL/					

N A M E		#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.37	11	4	7	-22.60	0.35	0.00	0.58
0.15	12	7	10	-13.85	0.24	0.00	0.35
0.35	15	10	12	-22.09	1.04	0.00	0.56
0.03	18	15	333	-15.94	0.04	0.00	0.18
0.20	20	16	15	-47.01	0.12	0.00	0.53
0.13	22	155	331	-12.87	0.15	0.00	0.33
0.30	35	153	29	20.33	0.75	0.00	0.52
0.04	36	29	195	6.95	0.04	0.00	0.18
0.29	76	65	277	19.92	0.76	0.00	0.51
0.28	77	65	82	19.60	0.75	0.00	0.50
0.02	79	82	83	4.44	0.03	0.00	0.11
0.09	80	67	97	10.45	0.09	0.00	0.27
0.29	86	76	77	19.96	0.29	0.00	0.51
0.00	87	75	77	-1.76	0.01	0.00	0.05
0.04	92	70	76	6.47	0.10	0.00	0.17
0.40	94	97	70	23.53	0.69	0.00	0.60
0.04	96	68	90	7.03	0.03	0.00	0.18
0.10	108	67	68	11.19	0.27	0.00	0.29
0.03	124	90	185	5.28	0.04	0.00	0.13
0.05	134	128	260	6.40	0.19	0.00	0.16
0.04	185	16	122	18.53	0.08	0.00	0.21
0.01	224	204	203	2.33	0.01	0.00	0.06
0.41	251	28	153	23.28	0.12	0.01	0.59
0.00	255	64	157	1.47	0.01	0.00	0.04
0.01	257	75	159	3.42	0.01	0.00	0.09

	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.67	0.01	0.00	0.07
0.01	0.01						
	281	96	167	-8.51	0.18	0.00	0.22
0.06	0.06						
	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						
	296	333	2	-36.42	0.11	0.01	0.41
0.14	0.12						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	24.28	0.22	0.00	0.28
0.06	0.06						
	432	261	67	11.23	0.30	0.00	0.29
0.15	0.15						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

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70.05	36	Catnip Hill	0.26(1.10)	1151.65	990.00	161.65
106.32	66	Keene 4 way	4.75(1.10)	1150.37	905.00	245.37
101.31	79	James Lane E	3.75(1.10)	1148.80	915.00	233.80
66.59	131	Drakes Ln EO	0.88(1.10)	1088.67	935.00	153.67
107.75	157	KY1267 EOL	1.47(1.10)	1088.65	840.00	248.65
129.50	173	Stirling Est	3.35(1.10)	1148.85	850.00	298.85
101.36	182	End of Parke	2.84(1.10)	1148.90	915.00	233.90
56.31	217	Bark Woods	2.84(1.10)	1089.96	960.00	129.96
64.39	233	Hagin EOL	1.29(1.10)	1088.58	940.00	148.58

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)
322	148.89	96	51.49
173	129.50	137	52.00
53	125.92	200	52.00
60	125.07	O-RV-R2	52.00
133	120.77	15	52.00
318	120.75	O-AV-1	52.00
323	120.72	I-AV-1	52.00
178	119.09	192	53.66
I-RV-R1	119.09	16	53.69
276	116.90	238	53.89

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	3.69	354	0.00
303	2.65	227	0.00
3	1.30	248	0.00
304	1.10	391	0.00
263	0.79	422	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000	PIPE NUMBER	MINIMUM HL/1000
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	(ft/ft)		(ft/ft)
303	1.41	354	0.00
263	0.78	227	0.00
418	0.67	248	0.00
9	0.63	391	0.00
38	0.63	422	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.79	73.60	13.30
RV-2	PRV-1	86.70	ACTIVATED	112.49	86.70	51.41
RV-R1	PRV-1	93.20	ACTIVATED	119.09	93.20	40.46
RV-R2	PRV-1	52.00	ACTIVATED	78.28	52.00	64.83

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
FGN-BB	2.14	
R-1	489.54	KAWC Tank
TANK-B	19.98	New Tank - P
TANK-C	51.52	Chinkapin Ta

NET SYSTEM INFLOW = 563.17
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 12.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.80	TANK-B(1)	-19.98	1151.82	16.82	247090.	46.7	DRAINING

TANK-C(1) -51.52 1152.01 19.01 547434. 50.0 DRAINING
18.99

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

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Time: 12.250

CHANGES FOR NEXT SIMULATION (time = 12.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 12.250
Time: 12.500
Time: 12.750
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

TANK at node R-1 has a new HGL of 1154.000
Time: 13.000

TIME FROM INITIATION OF EPS = 13.0000 HOURS (1.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00041

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ HL/	#1 #2		LOSS	LOSS	VELO.
N A M E					
1000 1000					

(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)
	11	4	7	-15.40	0.17	0.00	0.39
0.18	0.18						
	12	7	10	-10.08	0.13	0.00	0.26
0.08	0.08						
	15	10	12	-16.30	0.59	0.00	0.42
0.20	0.20						
	18	15	333	-5.34	0.01	0.00	0.06
0.00	0.00						
	20	16	15	-48.42	0.13	0.00	0.55
0.21	0.21						
	22	155	331	-11.07	0.11	0.00	0.28
0.10	0.10						
	35	153	29	18.51	0.63	0.00	0.47
0.25	0.25						
	36	29	195	6.34	0.03	0.00	0.16
0.03	0.03						
	76	65	277	18.06	0.64	0.00	0.46
0.24	0.24						
	77	65	82	17.76	0.63	0.00	0.45
0.23	0.23						
	79	82	83	4.02	0.02	0.00	0.10
0.01	0.01						
	80	67	97	10.35	0.09	0.00	0.26
0.09	0.09						
	86	76	77	18.19	0.25	0.00	0.46
0.25	0.25						
	87	75	77	-1.93	0.01	0.00	0.05
0.00	0.00						
	92	70	76	4.91	0.06	0.00	0.13
0.02	0.02						
	94	97	70	20.09	0.52	0.00	0.51
0.29	0.29						
	96	68	90	4.48	0.01	0.00	0.11
0.02	0.02						
	108	67	68	8.07	0.15	0.00	0.21
0.05	0.05						
	124	90	185	2.62	0.01	0.00	0.07
0.01	0.01						
	134	128	260	4.84	0.11	0.00	0.12
0.03	0.03						
	185	16	122	13.84	0.04	0.00	0.16
0.02	0.02						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						

	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	-8.83	0.19	0.00	0.23
0.06	0.06						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						
	296	333	2	-5.59	0.00	0.00	0.06
0.00	0.00						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	22.52	0.19	0.00	0.26
0.05	0.05						
	432	261	67	8.46	0.18	0.00	0.22
0.09	0.09						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.02 36 Catnip Hill 0.23 1151.59 990.00 161.59

106.34	66	Keene 4 way	4.31	1150.41	905.00	245.41
101.40	79	James Lane E	3.41	1149.01	915.00	234.01
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89
107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
129.59	173	Stirling Est	3.05	1149.05	850.00	299.05
101.44	182	End of Parke	2.58	1149.09	915.00	234.09
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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)
322	148.99	96	51.44
173	129.59	15	51.95
53	126.02	O-AV-1	51.95
60	125.17	I-AV-1	51.95
133	120.86	137	52.00
318	120.85	200	52.00
323	120.82	O-RV-R2	52.00
178	119.13	238	53.30
I-RV-R1	119.13	192	53.61
276	116.91	16	53.63

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	2.34	227	0.00
38	1.93	248	0.00
304	0.88	391	0.00
3	0.77	225	0.00
263	0.67	467	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
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303	1.25	227	0.00
263	0.66	248	0.00
242	0.51	391	0.00
418	0.41	225	0.00
304	0.38	467	0.00

REGULATING VALVE REPORT

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.82	73.60	10.80
RV-2	PRV-1	86.70	ACTIVATED	112.58	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	119.13	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	78.31	52.00	57.71

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
FGN-BB	1.94	
R-1	372.30	KAWC Tank
TANK-B	55.91	New Tank - P
TANK-C	81.82	Chinkapin Ta

NET SYSTEM INFLOW = 511.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 511.98

TANK STATUS REPORT (time = 13.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.68	TANK-B(1)	-55.91	1151.74	16.74	245859.	46.5	DRAINING
18.87	TANK-C(1)	-81.82	1151.91	18.91	544477.	49.8	DRAINING

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

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Time: 13.250

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 = 13.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 13.250
Time: 13.500
Time: 13.750
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

TANK at node R-1 has a new HGL of 1154.000
Time: 14.000

TIME FROM INITIATION OF EPS = 14.0000 HOURS (2.00PM, DAY: 1)

RESULTS OBTAINED AFTER 12 TRIALS: ACCURACY = 0.00002

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 O D E	N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000 1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft) (ft/ft)						

	11	4	7	-17.77	0.22	0.00	0.45
0.23	0.23						
	12	7	10	-10.01	0.13	0.00	0.26
0.08	0.08						
	15	10	12	-15.63	0.55	0.00	0.40
0.19	0.19						
	18	15	333	-16.04	0.04	0.00	0.18
0.03	0.03						
	20	16	15	-32.52	0.06	0.00	0.37
0.10	0.10						
	22	155	331	-6.28	0.04	0.00	0.16
0.03	0.03						
	35	153	29	9.30	0.18	0.00	0.24
0.07	0.07						
	36	29	195	3.20	0.01	0.00	0.08
0.01	0.01						
	76	65	277	8.93	0.17	0.00	0.23
0.07	0.07						
	77	65	82	8.78	0.17	0.00	0.22
0.06	0.06						
	79	82	83	1.97	0.01	0.00	0.05
0.00	0.00						
	80	67	97	3.30	0.01	0.00	0.08
0.01	0.01						
	86	76	77	8.81	0.06	0.00	0.22
0.06	0.06						
	87	75	77	0.17	0.00	0.00	0.00
0.00	0.00						
	92	70	76	5.12	0.07	0.00	0.13
0.02	0.02						
	94	97	70	13.84	0.26	0.00	0.35
0.15	0.15						
	96	68	90	6.43	0.03	0.00	0.16
0.04	0.04						
	108	67	68	9.09	0.18	0.00	0.23
0.07	0.07						
	124	90	185	6.48	0.06	0.00	0.17
0.05	0.05						
	134	128	260	4.63	0.10	0.00	0.12
0.03	0.03						
	185	16	122	20.63	0.09	0.00	0.23
0.04	0.04						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						

	281	96	167	-5.35	0.08	0.00	0.14
0.03	0.03						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	-37.26	0.11	0.01	0.42
0.14	0.13						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	7.98	0.03	0.00	0.09
0.01	0.01						
	432	261	67	8.45	0.18	0.00	0.22
0.09	0.09						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.04	36	Catnip Hill	0.12(0.50)	1151.62	990.00	161.62
106.75	66	Keene 4 way	2.16(0.50)	1151.36	905.00	246.36

102.32	79	James Lane E	1.71(0.50)	1151.11	915.00	236.11
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70
108.20	157	KY1267 EOL	0.67(0.50)	1089.69	840.00	249.69
130.49	173	Stirling Est	1.52(0.50)	1151.13	850.00	301.13
102.33	182	End of Parke	1.29(0.50)	1151.14	915.00	236.14
56.34	217	Bark Woods	1.29(0.50)	1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)	1089.68	940.00	149.68

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)
322	149.36	96	51.42
173	130.49	15	51.89
53	126.40	O-AV-1	51.89
60	125.53	I-AV-1	51.89
133	121.21	137	52.00
318	121.20	200	52.00
323	121.20	O-RV-R2	52.00
178	119.67	238	53.41
I-RV-R1	119.67	192	53.57
276	116.97	16	53.59

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	2.02	227	0.00
303	0.99	199	0.00
3	0.61	391	0.00
9	0.36	225	0.00
418	0.31	156	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.54	227	0.00
9	0.36	199	0.00

38	0.36	391	0.00
418	0.31	225	0.00
3	0.25	156	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	100.26	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	113.05	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	119.67	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	78.59	52.00	19.59

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
FGN-BB	0.97	
R-1	331.15	KAWC Tank
TANK-B	-93.58	New Tank - P
TANK-C	17.45	Chinkapin Ta

NET SYSTEM INFLOW = 349.57
 NET SYSTEM OUTFLOW = -93.58
 NET SYSTEM DEMAND = 255.99

T A N K S T A T U S R E P O R T (time = 14.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.63	TANK-B(1)	93.58	1151.53	16.53	242839.	45.9	FILLING
18.73	TANK-C(1)	-17.45	1151.74	18.74	539516.	49.3	DRAINING

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

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Time: 14.250

CHANGES FOR NEXT SIMULATION (time = 14.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 14.250
Time: 14.500
Time: 14.750
Time: 15.000

CHANGES FOR NEXT SIMULATION (time = 15.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 15.000

TIME FROM INITIATION OF EPS = 15.0000 HOURS (3.00PM, DAY: 1)

RESULTS OBTAINED AFTER 15 TRIALS: ACCURACY = 0.00001

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

	11	4	7	8.86	0.06	0.00	0.23
0.06	0.06						
	12	7	10	2.20	0.01	0.00	0.06
0.00	0.00						
	15	10	12	2.26	0.02	0.00	0.06
0.01	0.01						
	18	15	333	26.10	0.10	0.00	0.30
0.07	0.07						
	20	16	15	-57.87	0.17	0.00	0.66
0.29	0.29						
	22	155	331	-4.32	0.02	0.00	0.11
0.02	0.02						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	9.65	0.08	0.00	0.25
0.08	0.08						
	86	76	77	13.55	0.14	0.00	0.35
0.14	0.14						
	87	75	77	-2.05	0.01	0.00	0.05
0.00	0.00						
	92	70	76	1.42	0.01	0.00	0.04
0.00	0.00						
	94	97	70	12.20	0.21	0.00	0.31
0.12	0.12						
	96	68	90	-3.36	0.01	0.00	0.09
0.01	0.01						
	108	67	68	-0.80	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-4.79	0.03	0.00	0.12
0.03	0.03						
	134	128	260	0.75	0.00	0.00	0.02
0.00	0.00						
	185	16	122	-14.26	0.05	0.00	0.16
0.02	0.02						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	-11.70	0.32	0.00	0.30
0.11	0.11						

	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	64.22	0.30	0.04	0.73
0.40	0.35						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	19.06	0.14	0.00	0.22
0.04	0.04						
	432	261	67	0.52	0.00	0.00	0.01
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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69.97	36	Catnip Hill	0.18(0.75)	1151.46	990.00	161.46
106.27	66	Keene 4 way	3.24(0.75)	1150.24	905.00	245.24
101.48	79	James Lane E	2.56(0.75)	1149.18	915.00	234.18

66.88	131	Drakes Ln EO	0.60(0.75)1089.35	935.00	154.35
108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
129.65	173	Stirling Est	2.29(0.75)1149.20	850.00	299.20
101.50	182	End of Parke	1.93(0.75)1149.23	915.00	234.23
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
322	149.20	96	51.31
173	129.65	15	51.83
53	126.23	O-AV-1	51.83
60	125.37	I-AV-1	51.83
133	121.05	137	52.00
318	121.05	200	52.00
323	121.03	O-RV-R2	52.00
178	119.11	238	52.27
I-RV-R1	119.11	192	53.46
276	116.93	16	53.49

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	1.74	187	0.00
304	0.42	227	0.00
296	0.40	103	0.00
263	0.39	225	0.00
121	0.36	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.94	187	0.00
263	0.38	227	0.00
296	0.35	103	0.00
242	0.30	225	0.00

20 0.29 391 0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.76	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	112.72	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	119.11	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	78.35	52.00	39.54

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
FGN-BB	1.46	
R-1	0.00	KAWC Tank
TANK-B	221.87	New Tank - P
TANK-C	160.66	Chinkapin Ta

NET SYSTEM INFLOW = 383.99
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 15.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.56	TANK-B(1)	-221.87	1151.78	16.78	246537.	46.6	DRAINING
18.68	TANK-C(1)	-160.66	1151.76	18.76	540155.	49.4	DRAINING

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

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Time: 15.250

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 = 15.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 15.250
Time: 15.500
Time: 15.750
Time: 16.000

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 = 16.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1144.000
Time: 16.000

TIME FROM INITIATION OF EPS = 16.0000 HOURS (4.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00031

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 O D E N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ HL/	#1 #2		LOSS	LOSS	VELO.
N A M E					
1000 1000		(gpm)	(ft)	(ft)	(ft/s)
(ft/ft) (ft/ft)					

11 4 7 14.84 0.16 0.00 0.38
0.17 0.17

	12	7	10	3.70	0.02	0.00	0.09
0.01	0.01						
	15	10	12	3.79	0.04	0.00	0.10
0.01	0.01						
	18	15	333	46.57	0.29	0.00	0.53
0.19	0.19						
	20	16	15	-114.31	0.61	0.00	1.30
1.02	1.02						
	22	155	331	-6.60	0.04	0.00	0.17
0.04	0.04						
	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.26	0.21	0.00	0.42
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.35	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.59	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.63	0.54	0.00	0.53
0.31	0.31						
	96	68	90	-5.48	0.02	0.00	0.14
0.03	0.03						
	108	67	68	-1.16	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-7.88	0.08	0.00	0.20
0.07	0.07						
	134	128	260	1.34	0.01	0.00	0.03
0.00	0.00						
	185	16	122	-17.75	0.07	0.00	0.20
0.03	0.03						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-22.39	1.08	0.00	0.57
0.36	0.36						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						

	296	333	2	115.36	0.90	0.13	1.31
1.19	1.04						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	30.47	0.33	0.00	0.35
0.09	0.09						
	432	261	67	1.06	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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69.54	36	Catnip Hill	0.29(1.25)	1150.48	990.00	160.48
104.94	66	Keene 4 way	5.39(1.25)	1147.17	905.00	242.17
99.40	79	James Lane E	4.26(1.25)	1144.39	915.00	229.39
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32

107.59	157	KY1267 EOL	1.68(1.25)1088.28	840.00	248.28
127.60	173	Stirling Est	3.81(1.25)1144.46	850.00	294.46
99.46	182	End of Parke	3.22(1.25)1144.52	915.00	229.52
56.30	217	Bark Woods	3.22(1.25)1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)1088.20	940.00	148.20

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)
322	148.72	96	50.80
173	127.60	238	51.20
53	125.76	15	51.51
60	124.91	O-AV-1	51.51
133	120.62	I-AV-1	51.51
318	120.60	137	51.99
323	120.56	200	51.99
178	117.65	O-RV-R2	52.00
I-RV-R1	117.65	192	52.87
276	116.89	16	52.98

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
304	1.47	248	0.00
296	1.19	227	0.00
470	1.11	103	0.00
20	1.02	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	187	0.00
296	1.04	248	0.00
20	1.02	227	0.00
263	0.99	103	0.00
242	0.77	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	98.33	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	111.55	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	117.65	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	77.41	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-B	337.64	New Tank - P
TANK-C	299.91	Chinkapin Ta

NET SYSTEM INFLOW = 639.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 16.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
15.61	TANK-B(1)	-337.64	1150.96	15.96	234416.	44.3	DRAINING
18.23	TANK-C(1)	-299.91	1151.39	18.39	529325.	48.4	DRAINING

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

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Time: 16.250

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 = 16.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 16.250
Time: 16.500
Time: 16.750
Time: 17.000

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 = 17.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1142.000
Time: 17.000

TIME FROM INITIATION OF EPS = 17.0000 HOURS (5.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00020

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/	HL/	#1	#2		LOSS	LOSS	VELO.
N A M E				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
0.40	11	4	7	23.76	0.38	0.00	0.61
0.03	12	7	10	5.92	0.05	0.00	0.15
	0.03						

	15	10	12	6.08	0.09	0.00	0.16
0.03	0.03						
	18	15	333	74.59	0.71	0.00	0.85
0.46	0.46						
	20	16	15	-184.35	1.49	0.00	2.09
2.48	2.48						
	22	155	331	-10.63	0.10	0.00	0.27
0.09	0.09						
	35	153	29	36.82	2.26	0.00	0.94
0.91	0.91						
	36	29	195	12.55	0.12	0.00	0.32
0.12	0.12						
	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	26.14	0.49	0.00	0.67
0.48	0.48						
	86	76	77	36.29	0.88	0.00	0.93
0.88	0.88						
	87	75	77	-5.32	0.05	0.00	0.14
0.03	0.03						
	92	70	76	4.28	0.05	0.00	0.11
0.02	0.02						
	94	97	70	33.18	1.31	0.00	0.85
0.75	0.75						
	96	68	90	-8.81	0.05	0.00	0.22
0.06	0.06						
	108	67	68	-1.85	0.01	0.00	0.05
0.00	0.00						
	124	90	185	-12.67	0.20	0.00	0.32
0.16	0.16						
	134	128	260	2.15	0.03	0.00	0.05
0.01	0.01						
	185	16	122	-27.99	0.16	0.00	0.32
0.08	0.08						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-36.04	2.60	0.00	0.92
0.87	0.87						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	184.87	2.16	0.32	2.10
2.87	2.50						
	336-XX	331	115				

	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	48.59	0.80	0.00	0.55
0.21	0.21						
	432	261	67	1.71	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98	133	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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68.70	36	Catnip Hill	0.47(2.00)	1148.53	990.00	158.53
102.11	66	Keene 4 way	8.63(2.00)	1140.64	905.00	235.64
94.87	79	James Lane E	6.82(2.00)	1133.93	915.00	218.93
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89

123.10	173	Stirling Est	6.10(2.00)	1134.09	850.00	284.09
95.00	182	End of Parke	5.16(2.00)	1134.23	915.00	219.23
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	238	48.95
53	124.68	96	49.80
60	123.85	15	50.90
173	123.10	O-AV-1	50.90
133	119.62	I-AV-1	50.90
318	119.58	192	51.72
323	119.47	137	51.98
276	116.78	200	51.98
279	115.27	16	51.99
268	114.56	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	187	0.00
304	4.04	248	0.00
296	2.87	213	0.00
470	2.83	391	0.00
20	2.48	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	187	0.00
296	2.50	248	0.00
20	2.48	213	0.00
263	2.37	391	0.00
242	1.83	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.24	73.60	32.85
RV-2	PRV-1	86.70	ACTIVATED	109.04	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	114.50	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	75.45	52.00	126.90

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
FGN-BB	3.89	
R-1	0.00	KAWC Tank
TANK-B	538.06	New Tank - P
TANK-C	482.02	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 17.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
14.10	TANK-B(1)	-538.06	1149.65	14.65	215209.	40.7	DRAINING
17.47	TANK-C(1)	-482.02	1150.72	17.72	510279.	46.6	DRAINING

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

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 Time: 17.250

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 = 17.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 17.250
Time: 17.500
Time: 17.750
Time: 18.000

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 = 18.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
Time: 18.000

TIME FROM INITIATION OF EPS = 18.0000 HOURS (6.00PM, DAY: 1)

RESULTS OBTAINED AFTER 11 TRIALS: ACCURACY = 0.00020

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/	HL/				LOSS	LOSS	VELO.
N A M E		#1	#2				

1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						

0.40	11	4	7	23.81	0.38	0.00	0.61
0.03	12	7	10	5.94	0.05	0.00	0.15
0.03	15	10	12	6.09	0.10	0.00	0.16

	18	15	333	79.25	0.79	0.00	0.90
0.52	0.52						
	20	16	15	-210.14	1.90	0.00	2.38
3.16	3.16						
	22	155	331	-9.99	0.09	0.00	0.26
0.08	0.08						
	35	153	29	36.82	2.26	0.00	0.94
0.91	0.91						
	36	29	195	12.55	0.12	0.00	0.32
0.12	0.12						
	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	26.13	0.49	0.00	0.67
0.48	0.48						
	86	76	77	36.29	0.88	0.00	0.93
0.88	0.88						
	87	75	77	-5.32	0.05	0.00	0.14
0.03	0.03						
	92	70	76	4.30	0.05	0.00	0.11
0.02	0.02						
	94	97	70	33.21	1.31	0.00	0.85
0.75	0.75						
	96	68	90	-8.65	0.05	0.00	0.22
0.06	0.06						
	108	67	68	-1.67	0.01	0.00	0.04
0.00	0.00						
	124	90	185	-12.50	0.19	0.00	0.32
0.16	0.16						
	134	128	260	2.21	0.03	0.00	0.06
0.01	0.01						
	185	16	122	-18.84	0.08	0.00	0.21
0.04	0.04						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-40.29	3.20	0.00	1.03
1.07	1.07						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	197.44	2.44	0.37	2.24
3.24	2.82						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						

	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	47.03	0.75	0.00	0.53
0.20	0.20						
	432	261	67	1.86	0.01	0.00	0.05
0.01	0.01						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98	133	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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68.10	36	Catnip Hill	0.47(2.00)	1147.16	990.00	157.16
101.35	66	Keene 4 way	8.63(2.00)	1138.89	905.00	233.89
94.11	79	James Lane E	6.82(2.00)	1132.18	915.00	217.18
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
122.35	173	Stirling Est	6.10(2.00)	1132.34	850.00	282.34

94.24	182	End of Parke	5.16(2.00)	1132.49	915.00	217.49
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	238	48.20
53	124.68	96	49.08
60	123.85	15	50.34
173	122.35	O-AV-1	50.34
133	119.62	I-AV-1	50.34
318	119.58	192	50.91
323	119.47	16	51.25
276	116.78	137	51.98
279	115.27	200	51.98
268	114.56	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	187	0.00
304	4.04	248	0.00
470	3.40	213	0.00
296	3.24	391	0.00
20	3.16	227	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	187	0.00
20	3.16	248	0.00
296	2.82	213	0.00
263	2.37	391	0.00
242	1.83	227	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	94.48	73.60	32.84
RV-2	PRV-1	86.70	ACTIVATED	108.30	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	113.75	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	74.71	52.00	126.90

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
FGN-BB	3.89	
R-1	0.00	KAWC Tank
TANK-B	490.63	New Tank - P
TANK-C	529.45	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 18.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
12.04	TANK-B(1)	-490.63	1147.54	12.54	184178.	34.8	DRAINING
16.41	TANK-C(1)	-529.45	1149.68	16.68	480280.	43.9	DRAINING

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

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 Time: 18.250

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 = 18.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 18.250
Time: 18.500
Time: 18.750
Time: 19.000

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 = 19.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
Time: 19.000

TIME FROM INITIATION OF EPS = 19.0000 HOURS (7.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00025

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/	HL/	#1	#2		LOSS	LOSS	VELO.
N A M E				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
0.24	11	4	7	17.94	0.23	0.00	0.46
0.02	12	7	10	4.47	0.03	0.00	0.11
0.02	15	10	12	4.59	0.06	0.00	0.12
0.40	18	15	333	68.97	0.61	0.00	0.78
0.40	0.40						

	20	16	15	-209.13	1.88	0.00	2.37
3.14	3.14						
	22	155	331	-6.60	0.04	0.00	0.17
0.04	0.04						
	35	153	29	27.65	1.33	0.00	0.71
0.53	0.53						
	36	29	195	9.43	0.07	0.00	0.24
0.07	0.07						
	76	65	277	27.34	1.37	0.00	0.70
0.52	0.52						
	77	65	82	26.90	1.35	0.00	0.69
0.51	0.51						
	79	82	83	6.12	0.05	0.00	0.16
0.03	0.03						
	80	67	97	19.53	0.29	0.00	0.50
0.28	0.28						
	86	76	77	27.20	0.52	0.00	0.69
0.52	0.52						
	87	75	77	-4.00	0.03	0.00	0.10
0.01	0.01						
	92	70	76	3.22	0.03	0.00	0.08
0.01	0.01						
	94	97	70	24.89	0.77	0.00	0.64
0.44	0.44						
	96	68	90	-6.19	0.03	0.00	0.16
0.03	0.03						
	108	67	68	-0.96	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-9.07	0.11	0.00	0.23
0.09	0.09						
	134	128	260	1.76	0.02	0.00	0.04
0.00	0.00						
	185	16	122	6.40	0.01	0.00	0.07
0.00	0.00						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						
	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						
	281	96	167	-38.83	2.99	0.00	0.99
1.00	1.00						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						
	296	333	2	173.79	1.92	0.28	1.97
2.55	2.23						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						

	396	122	332	32.75	0.38	0.00	0.37
0.10	0.10						
	432	261	67	1.64	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98	133	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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67.81	36	Catnip Hill	0.35(1.50)	1146.48	990.00	156.48
102.26	66	Keene 4 way	6.47(1.50)	1140.99	905.00	235.99
96.23	79	James Lane E	5.12(1.50)	1137.06	915.00	222.06
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00	152.64
107.29	157	KY1267 EOL	2.01(1.50)	1087.59	840.00	247.59
124.43	173	Stirling Est	4.57(1.50)	1137.15	850.00	287.15
96.30	182	End of Parke	3.87(1.50)	1137.24	915.00	222.24

56.28	217	Bark Woods	3.87(1.50)1089.89	960.00	129.89
63.91	233	Hagin EOL	1.76(1.50)1087.48	940.00	147.48

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)
322	148.41	96	48.69
53	125.45	238	48.69
60	124.60	15	49.92
173	124.43	O-AV-1	49.92
133	120.33	I-AV-1	49.92
318	120.30	192	50.56
323	120.24	16	50.84
276	116.86	137	51.99
279	115.98	200	51.99
178	114.88	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	4.17	187	0.00
20	3.14	248	0.00
470	2.95	227	0.00
296	2.55	391	0.00
304	2.20	213	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	3.14	187	0.00
296	2.23	248	0.00
303	2.18	227	0.00
263	1.39	391	0.00
467	1.08	213	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING	VALVE STATUS	UPSTREAM PRESSURE	DOWNSTREAM PRESSURE	THROUGH FLOW
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			(psi or gpm)		(psi)	(psi)	(gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.57	73.60	22.41	
RV-2	PRV-1	86.70	ACTIVATED	108.99	86.70	65.44	
RV-R1	PRV-1	93.20	ACTIVATED	114.88	93.20	51.25	
RV-R2	PRV-1	52.00	ACTIVATED	75.01	52.00	92.77	

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
FGN-BB	2.91	
R-1	0.00	KAWC Tank
TANK-B	272.09	New Tank - P
TANK-C	492.96	Chinkapin Ta

NET SYSTEM INFLOW = 767.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 767.97

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

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.31	TANK-B(1)	-272.09	1145.59	10.59	155594.	29.4	DRAINING
15.29	TANK-C(1)	-492.96	1148.55	15.55	447659.	40.9	DRAINING

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

=====
 Time: 19.250

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 = 19.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 19.250
Time: 19.500
Time: 19.750
Time: 20.000

CHANGES FOR NEXT SIMULATION (time = 20.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
Time: 20.000

TIME FROM INITIATION OF EPS = 20.0000 HOURS (8.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00030

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

0.17	11	4	7	14.99	0.16	0.00	0.38
0.01	12	7	10	3.74	0.02	0.00	0.10
0.01	15	10	12	3.83	0.04	0.00	0.10
0.34	18	15	333	63.39	0.52	0.00	0.72
3.01	20	16	15	-204.35	1.80	0.00	2.32

	22	155	331	-5.05	0.03	0.00	0.13
0.02	0.02						
	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.23	0.20	0.00	0.41
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.34	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.67	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.72	0.55	0.00	0.53
0.31	0.31						
	96	68	90	-5.00	0.02	0.00	0.13
0.02	0.02						
	108	67	68	-0.64	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-7.38	0.07	0.00	0.19
0.06	0.06						
	134	128	260	1.52	0.01	0.00	0.04
0.00	0.00						
	185	16	122	17.45	0.07	0.00	0.20
0.03	0.03						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-37.49	2.80	0.00	0.96
0.94	0.94						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	160.70	1.66	0.24	1.82
2.21	1.93						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	25.20	0.24	0.00	0.29
0.06	0.06						

	432	261	67	1.51	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98	133	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

67.46	36	Catnip Hill	0.29(1.25)	1145.67	990.00	155.67
102.44	66	Keene 4 way	5.39(1.25)	1141.39	905.00	236.39
96.90	79	James Lane E	4.26(1.25)	1138.60	915.00	223.60
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
125.09	173	Stirling Est	3.81(1.25)	1138.67	850.00	288.67
96.95	182	End of Parke	3.22(1.25)	1138.73	915.00	223.73
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93

64.22 233 Hagin EOL 1.47(1.25)1088.20 940.00 148.20

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)
322	148.72	96	48.33
53	125.76	238	48.70
173	125.09	15	49.53
60	124.91	O-AV-1	49.53
133	120.62	I-AV-1	49.53
318	120.60	192	50.25
323	120.56	16	50.48
276	116.89	137	51.99
279	116.28	200	51.99
178	115.15	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
20	3.01	248	0.00
470	2.67	227	0.00
296	2.21	391	0.00
304	1.47	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	3.01	187	0.00
296	1.93	248	0.00
303	1.67	227	0.00
263	0.99	391	0.00
467	0.94	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
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RV-1   PRV-1   73.60  ACTIVATED   95.82      73.60      16.85
RV-2   PRV-1   86.70  ACTIVATED  109.06      86.70      56.57
RV-R1  PRV-1   93.20  ACTIVATED  115.15      93.20      44.40
RV-R2  PRV-1   52.00  ACTIVATED   74.92      52.00      75.40

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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

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NODE          FLOWRATE      NODE
NAME          (gpm)        TITLE
-----
FGN-BB          2.43
R-1             0.00      KAWC Tank
TANK-B         169.23    New Tank - P
TANK-C         468.31    Chinkapin Ta

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NET SYSTEM INFLOW = 639.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

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

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PROJECTED      TANK      NET      WATER      TANK      TANK      TANK      TANK
DEPTH          NAME      FLOW     ELEVATION  DEPTH     VOLUME    VOLUME    STATUS
(ft)           (*)      (gpm)    (ft)      (ft)      (gal)     (%)
-----
0.00          TANK-A(1)  0.00    1153.00   0.00      0.        0.0      EMPTY
9.32          TANK-B(1) -169.23  1144.49   9.49      139367.   26.4     DRAINING
14.27         TANK-C(1) -468.31  1147.52  14.52      417983.   38.2     DRAINING

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

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Time: 20.250

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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 = 20.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 20.250
Time: 20.500
Time: 20.750
Time: 21.000

CHANGES FOR NEXT SIMULATION (time = 21.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1121.000
Time: 21.000

TIME FROM INITIATION OF EPS = 21.0000 HOURS (9.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00030

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	#1 #2		LOSS	LOSS	VELO.
1000 1000		(gpm)	(ft)	(ft)	(ft/s)
0.17 0.17	4 7	14.98	0.16	0.00	0.38
0.01 0.01	7 10	3.74	0.02	0.00	0.10
0.01 0.01	10 12	3.83	0.04	0.00	0.10
0.33 0.33	15 333	61.84	0.50	0.00	0.70
2.80 2.80	16 15	-196.53	1.68	0.00	2.23
0.02 0.02	155 331	-5.17	0.03	0.00	0.13

	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.23	0.20	0.00	0.41
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.34	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.66	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.71	0.55	0.00	0.53
0.31	0.31						
	96	68	90	-5.04	0.02	0.00	0.13
0.02	0.02						
	108	67	68	-0.69	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-7.43	0.07	0.00	0.19
0.06	0.06						
	134	128	260	1.50	0.01	0.00	0.04
0.00	0.00						
	185	16	122	14.34	0.05	0.00	0.16
0.02	0.02						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-36.15	2.62	0.00	0.92
0.88	0.88						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	156.54	1.59	0.23	1.78
2.10	1.83						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	25.84	0.25	0.00	0.29
0.07	0.07						
	432	261	67	1.47	0.01	0.00	0.04
0.00	0.00						

474-XX 245 166

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
 98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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67.08	36	Catnip Hill	0.29(1.25)	1144.81	990.00	154.81
102.11	66	Keene 4 way	5.39(1.25)	1140.63	905.00	235.63
96.56	79	James Lane E	4.26(1.25)	1137.84	915.00	222.84
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
124.76	173	Stirling Est	3.81(1.25)	1137.91	850.00	287.91
96.62	182	End of Parke	3.22(1.25)	1137.97	915.00	222.97
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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)
322	148.72	96	48.00
53	125.76	238	48.37
60	124.91	15	49.14
173	124.76	O-AV-1	49.14
133	120.62	I-AV-1	49.14
318	120.60	192	49.92
323	120.56	16	50.15
276	116.89	TANK-A	51.74
279	116.28	137	51.99
178	114.82	200	51.99

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
20	2.80	248	0.00
470	2.50	227	0.00
296	2.10	391	0.00
304	1.47	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.80	187	0.00
296	1.83	248	0.00
303	1.67	227	0.00
263	0.99	391	0.00
467	0.89	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.49	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	108.73	86.70	56.57

RV-R1	PRV-1	93.20	ACTIVATED	114.82	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	74.59	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-B	184.26	New Tank - P
TANK-C	453.28	Chinkapin Ta
NET SYSTEM INFLOW = 639.97		
NET SYSTEM OUTFLOW = 0.00		
NET SYSTEM DEMAND = 639.98		

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

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
8.58	TANK-B(1)	-184.26	1143.77	8.77	128848.	24.4	DRAINING
13.32	TANK-C(1)	-453.28	1146.55	13.55	390249.	35.7	DRAINING

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

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 Time: 21.250

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 = 21.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 21.250
Time: 21.500
Time: 21.750
Time: 22.000

CHANGES FOR NEXT SIMULATION (time = 22.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1131.000
Time: 22.000

TIME FROM INITIATION OF EPS = 22.0000 HOURS (10.00PM, DAY: 1)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00040

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
0.11	0.11	4	7	12.04	0.11	0.00	0.31
0.01	0.01	7	10	3.01	0.01	0.00	0.08
0.01	0.01	10	12	3.08	0.03	0.00	0.08
0.27	0.27	15	333	55.36	0.41	0.00	0.63
2.52	2.52	16	15	-186.01	1.51	0.00	2.11
0.01	0.01	155	331	-3.67	0.01	0.00	0.09
0.25	0.25	153	29	18.51	0.63	0.00	0.47
0.03	0.03	29	195	6.34	0.03	0.00	0.16

	76	65	277	18.06	0.64	0.00	0.46
0.24	0.24						
	77	65	82	17.76	0.63	0.00	0.45
0.23	0.23						
	79	82	83	4.02	0.02	0.00	0.10
0.01	0.01						
	80	67	97	12.93	0.13	0.00	0.33
0.13	0.13						
	86	76	77	18.10	0.24	0.00	0.46
0.24	0.24						
	87	75	77	-2.68	0.02	0.00	0.07
0.01	0.01						
	92	70	76	2.12	0.01	0.00	0.05
0.00	0.00						
	94	97	70	16.56	0.36	0.00	0.42
0.21	0.21						
	96	68	90	-3.83	0.01	0.00	0.10
0.01	0.01						
	108	67	68	-0.35	0.00	0.00	0.01
0.00	0.00						
	124	90	185	-5.73	0.05	0.00	0.15
0.04	0.04						
	134	128	260	1.26	0.01	0.00	0.03
0.00	0.00						
	185	16	122	22.75	0.11	0.00	0.26
0.05	0.05						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						
	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	-33.87	2.32	0.00	0.86
0.78	0.78						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						
	296	333	2	140.94	1.31	0.19	1.60
1.73	1.51						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	18.00	0.13	0.00	0.20
0.03	0.03						
	432	261	67	1.35	0.01	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail.	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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66.79	36	Catnip Hill	0.23	1144.14	990.00	154.14
102.29	66	Keene 4 way	4.31	1141.05	905.00	236.05
97.16	79	James Lane E	3.41	1139.22	915.00	224.22
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89
107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
125.35	173	Stirling Est	3.05	1139.27	850.00	289.27
97.20	182	End of Parke	2.58	1139.31	915.00	224.31
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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)
322	148.99	96	47.73
53	126.02	238	48.42
173	125.35	15	48.80
60	125.17	O-AV-1	48.80
133	120.86	I-AV-1	48.80
318	120.85	192	49.71
323	120.82	16	49.88
276	116.91	TANK-A	51.40
279	116.52	137	52.00
178	115.07	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
20	2.52	187	0.00
303	2.34	227	0.00
470	2.14	248	0.00
296	1.73	391	0.00
304	0.88	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.52	187	0.00
296	1.51	227	0.00
303	1.25	248	0.00
281	0.78	391	0.00
467	0.74	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.74	73.60	10.80
RV-2	PRV-1	86.70	ACTIVATED	108.82	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	115.07	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	74.55	52.00	57.71

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
FGN-BB	1.94	
R-1	0.00	KAWC Tank
TANK-B	91.55	New Tank - P
TANK-C	418.49	Chinkapin Ta

NET SYSTEM INFLOW = 511.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 511.98

T A N K S T A T U S R E P O R T (time = 22.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
7.91	TANK-B(1)	-91.55	1143.00	8.00	117542.	22.2	DRAINING
12.40	TANK-C(1)	-418.49	1145.62	12.62	363302.	33.2	DRAINING

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

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 Time: 22.250

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 = 22.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 22.250

Time: 22.500
 Time: 22.750
 Time: 23.000

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 = 23.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
 Time: 23.000

TIME FROM INITIATION OF EPS = 23.0000 HOURS (11.00PM, DAY: 1)

RESULTS OBTAINED AFTER 14 TRIALS: ACCURACY = 0.00047

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.02	0.02	4	7	4.29	0.02	0.00	0.11
0.00	0.00	7	10	1.16	0.00	0.00	0.03
0.00	0.00	10	12	1.15	0.00	0.00	0.03
0.15	0.15	15	333	39.79	0.22	0.00	0.45
1.64	1.64	16	15	-147.42	0.98	0.00	1.67
0.05	0.05	155	331	7.87	0.06	0.00	0.20
0.02	0.02	153	29	4.41	0.04	0.00	0.11
0.00	0.00	29	195	1.43	0.00	0.00	0.04
0.02	0.02	65	277	4.97	0.06	0.00	0.13
0.02	0.02	65	82	4.92	0.06	0.00	0.13

	79	82	83	1.18	0.00	0.00	0.03
0.00	0.00						
	80	67	97	1.83	0.00	0.00	0.05
0.00	0.00						
	86	76	77	4.36	0.02	0.00	0.11
0.02	0.02						
	87	75	77	-0.31	0.00	0.00	0.01
0.00	0.00						
	92	70	76	1.83	0.01	0.00	0.05
0.00	0.00						
	94	97	70	5.80	0.05	0.00	0.15
0.03	0.03						
	96	68	90	2.47	0.00	0.00	0.06
0.01	0.01						
	108	67	68	3.58	0.03	0.00	0.09
0.01	0.01						
	124	90	185	2.37	0.01	0.00	0.06
0.01	0.01						
	134	128	260	1.56	0.01	0.00	0.04
0.00	0.00						
	185	16	122	34.10	0.23	0.00	0.39
0.11	0.11						
	224	204	203	0.64	0.00	0.00	0.02
0.00	0.00						
	251	28	153	5.08	0.01	0.00	0.13
0.02	0.02						
	255	64	157	0.34	0.00	0.00	0.01
0.00	0.00						
	257	75	159	0.78	0.00	0.00	0.02
0.00	0.00						
	263	77	160	6.70	0.07	0.00	0.17
0.05	0.05						
	278	226	64	0.91	0.00	0.00	0.02
0.00	0.00						
	281	96	167	-26.42	1.46	0.00	0.67
0.49	0.49						
	286	65	168	-5.05	0.04	0.00	0.13
0.03	0.03						
	296	333	2	102.42	0.72	0.10	1.16
0.95	0.84						
	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	0.00						
	395	200	288	0.36	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-7.47	0.02	0.00	0.08
0.01	0.01						
	432	261	67	3.40	0.03	0.00	0.09
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
66.72	36	Catnip Hill	0.06(0.25)	1143.97	990.00	153.97
103.04	66	Keene 4 way	1.08(0.25)	1142.78	905.00	237.78
98.64	79	James Lane E	0.85(0.25)	1142.64	915.00	227.64
67.14	131	Drakes Ln EO	0.20(0.25)	1089.95	935.00	154.95
108.31	157	KY1267 EOL	0.34(0.25)	1089.95	840.00	249.95
126.81	173	Stirling Est	0.76(0.25)	1142.64	850.00	292.64
98.65	182	End of Parke	0.64(0.25)	1142.64	915.00	227.64
56.35	217	Bark Woods	0.64(0.25)	1090.04	960.00	130.04
64.98	233	Hagin EOL	0.29(0.25)	1089.94	940.00	149.94

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	MAXIMUM	JUNCTION	MINIMUM
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NUMBER	PRESSURES (psi)	NUMBER	PRESSURES (psi)
322	149.48	96	47.76
173	126.81	15	48.61
53	126.51	O-AV-1	48.61
60	125.64	I-AV-1	48.61
318	121.31	238	48.94
133	121.31	192	49.72
323	121.31	16	49.92
276	117.01	TANK-A	51.21
279	116.98	TANK-C	51.90
178	116.01	137	52.01

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
20	1.64	424	0.00
470	1.21	291	0.00
296	0.95	199	0.00
281	0.49	441	0.00
120	0.42	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	1.64	424	0.00
296	0.84	291	0.00
281	0.49	199	0.00
120	0.42	441	0.00
467	0.42	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	96.54	73.68	0.00
RV-2	PRV-1	86.70	ACTIVATED	109.52	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	116.01	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	74.98	52.01	0.00

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
FGN-BB	0.49	
R-1	0.00	KAWC Tank
TANK-B	-186.73	New Tank - P
TANK-C	314.24	Chinkapin Ta

NET SYSTEM INFLOW = 314.73
 NET SYSTEM OUTFLOW = -186.73
 NET SYSTEM DEMAND = 128.00

TANK STATUS REPORT (time = 23.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
7.77	TANK-B(1)	186.73	1142.58	7.58	111323.	21.1	FILLING
11.61	TANK-C(1)	-314.24	1144.77	11.77	338919.	31.0	DRAINING

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

=====
 Time: 23.250

CHANGES FOR NEXT SIMULATION (time = 23.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 23.250
 Time: 23.500
 Time: 23.750
 Time: 24.000

CHANGES FOR NEXT SIMULATION (time = 24.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1154.000
Time: 24.000

TIME FROM INITIATION OF EPS = 24.0000 HOURS (12.00PM, DAY: 1)

RESULTS OBTAINED AFTER 21 TRIALS: ACCURACY = 0.00017

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
1.05	1.05	4	7	-39.98	1.00	0.00	1.02
0.29	0.29	7	10	-19.97	0.48	0.00	0.51
0.62	0.62	10	12	-30.12	1.84	0.00	0.77
0.24	0.24	15	333	-52.33	0.37	0.00	0.59
0.02	0.02	16	15	12.74	0.01	0.00	0.14
0.08	0.08	155	331	-10.25	0.10	0.00	0.26
0.00	0.00	153	29	1.76	0.01	0.00	0.04
0.00	0.00	29	195	0.57	0.00	0.00	0.01
0.00	0.00	65	277	1.99	0.01	0.00	0.05
0.00	0.00	65	82	1.97	0.01	0.00	0.05
0.00	0.00	82	83	0.47	0.00	0.00	0.01
0.02	0.02	67	97	-4.19	0.02	0.00	0.11

	86	76	77	2.17	0.00	0.00	0.06
0.00	0.00						
	87	75	77	6.92	0.09	0.00	0.18
0.04	0.04						
	92	70	76	12.26	0.33	0.00	0.31
0.12	0.12						
	94	97	70	20.89	0.55	0.00	0.53
0.32	0.32						
	96	68	90	15.85	0.15	0.00	0.40
0.19	0.19						
	108	67	68	19.20	0.73	0.00	0.49
0.27	0.27						
	124	90	185	18.01	0.38	0.00	0.46
0.31	0.31						
	134	128	260	8.94	0.35	0.01	0.23
0.10	0.10						
	185	16	122	41.11	0.33	0.00	0.47
0.15	0.15						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	7.34	0.14	0.00	0.19
0.05	0.05						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-123.48	1.02	0.14	1.40
1.35	1.18						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-15.78	0.10	0.00	0.18
0.03	0.03						
	432	261	67	16.43	0.61	0.00	0.42
0.31	0.31						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

212

337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

66.83	36	Catnip Hill	0.02(0.10)	1144.21	990.00	154.21
104.24	66	Keene 4 way	0.43(0.10)	1145.56	905.00	240.56
100.40	79	James Lane E	0.34(0.10)	1146.70	915.00	231.70
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
128.57	173	Stirling Est	0.30(0.10)	1146.70	850.00	296.70
100.41	182	End of Parke	0.26(0.10)	1146.70	915.00	231.70
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
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322	149.52	96	48.25
173	128.57	15	48.69
53	126.56	O-AV-1	48.69
60	125.69	I-AV-1	48.69
133	121.36	16	50.43
318	121.36	192	50.48
323	121.36	TANK-A	51.29
178	117.24	TANK-C	51.65
I-RV-R1	117.24	137	52.03
276	117.03	200	52.03

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	8.34	199	0.00
3	1.89	391	0.00
296	1.35	441	0.00
9	1.34	201	0.00
121	1.11	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.34	199	0.00
38	1.34	391	0.00
296	1.18	441	0.00
11	1.05	201	0.00
418	0.84	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.81	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.15	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	117.24	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	75.51	52.03	0.00

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
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NAME	(gpm)	TITLE
FGN-BB	0.19	
R-1	593.13	KAWC Tank
TANK-B	-397.21	New Tank - P
TANK-C	-144.92	Chinkapin Ta

NET SYSTEM INFLOW = 593.33
NET SYSTEM OUTFLOW = -542.13
NET SYSTEM DEMAND = 51.20

TANK STATUS REPORT (time = 24.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
8.59	TANK-B(1)	397.21	1143.19	8.19	120286.	22.7	FILLING
11.27	TANK-C(1)	144.92	1144.19	11.19	322305.	29.5	FILLING

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

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Time: 24.250

CHANGES FOR NEXT SIMULATION (time = 24.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 24.250
Time: 24.500
Time: 24.750
Time: 25.000

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 = 25.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
Time: 25.000

TIME FROM INITIATION OF EPS = 25.0000 HOURS (1.00AM, DAY: 2)

RESULTS OBTAINED AFTER 24 TRIALS: ACCURACY = 0.00063

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.00	0.00	4	7	1.06	0.00	0.00	0.03
0.00	0.00	7	10	0.26	0.00	0.00	0.01
0.00	0.00	10	12	0.27	0.00	0.00	0.01
0.00	0.00	15	333	-0.45	0.00	0.00	0.01
0.01	0.01	16	15	10.25	0.01	0.00	0.12
0.00	0.00	155	331	-1.30	0.00	0.00	0.03
0.00	0.00	153	29	1.76	0.01	0.00	0.04
0.00	0.00	29	195	0.57	0.00	0.00	0.01
0.00	0.00	65	277	1.99	0.01	0.00	0.05
0.00	0.00	65	82	1.97	0.01	0.00	0.05
0.00	0.00	82	83	0.47	0.00	0.00	0.01
0.00	0.00	67	97	1.25	0.00	0.00	0.03
0.00	0.00	76	77	1.81	0.00	0.00	0.05
0.00	0.00						

0.00	87	75	77	-0.28	0.00	0.00	0.01
0.00	0.00						
0.00	92	70	76	0.08	0.00	0.00	0.00
0.00	0.00						
0.00	94	97	70	1.51	0.00	0.00	0.04
0.00	0.00						
0.00	96	68	90	-0.81	0.00	0.00	0.02
0.00	0.00						
0.00	108	67	68	-0.51	0.00	0.00	0.01
0.00	0.00						
0.00	124	90	185	-1.03	0.00	0.00	0.03
0.00	0.00						
0.00	134	128	260	-0.10	0.00	0.00	0.00
0.00	0.00						
0.01	185	16	122	-7.73	0.02	0.00	0.09
0.01	0.01						
0.00	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
0.00	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
0.00	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
0.00	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
0.01	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
0.00	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
0.00	281	96	167	1.59	0.01	0.00	0.04
0.00	0.00						
0.01	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
0.00	296	333	2	-2.28	0.00	0.00	0.03
0.00	0.00						
	336-XX	331	115				
0.00	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
0.00	395	200	288	0.20	0.00	0.00	0.00
0.00	0.00						
0.00	396	122	332	4.19	0.01	0.00	0.05
0.00	0.00						
0.00	432	261	67	-0.29	0.00	0.00	0.01
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

66.98	36	Catnip Hill	0.02(0.10)	1144.57	990.00	154.57
103.81	66	Keene 4 way	0.43(0.10)	1144.55	905.00	239.55
99.46	79	James Lane E	0.34(0.10)	1144.53	915.00	229.53
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
127.63	173	Stirling Est	0.30(0.10)	1144.53	850.00	294.53
99.46	182	End of Parke	0.26(0.10)	1144.53	915.00	229.53
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	96	48.35
173	127.63	15	48.78

53	126.56	O-AV-1	48.78
60	125.69	I-AV-1	48.78
133	121.36	238	49.64
318	121.36	16	50.52
323	121.36	192	50.53
276	117.03	TANK-A	51.38
279	117.02	TANK-C	51.81
178	116.80	137	52.03

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	0.05	351	0.00
121	0.03	103	0.00
348	0.01	97	0.00
320	0.01	221	0.00
20	0.01	199	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.03	351	0.00
348	0.01	103	0.00
320	0.01	221	0.00
121	0.01	97	0.00
20	0.01	199	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.31	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.29	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	116.80	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	75.64	52.03	0.00

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

FGN-BB	0.19	
R-1	0.00	KAWC Tank
TANK-B	65.23	New Tank - P
TANK-C	-14.22	Chinkapin Ta

NET SYSTEM INFLOW = 65.42
NET SYSTEM OUTFLOW = -14.22
NET SYSTEM DEMAND = 51.20

TANK STATUS REPORT (time = 25.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.57	TANK-B(1)	-65.23	1144.63	9.63	141483.	26.8	DRAINING
11.57	TANK-C(1)	14.22	1144.57	11.57	333010.	30.4	FILLING

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

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Time: 25.250

CHANGES FOR NEXT SIMULATION (time = 25.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 25.250
Time: 25.500
Time: 25.750
Time: 26.000

CHANGES FOR NEXT SIMULATION (time = 26.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000
Time: 26.000

TIME FROM INITIATION OF EPS = 26.0000 HOURS (2.00AM, DAY: 2)

RESULTS OBTAINED AFTER 21 TRIALS: ACCURACY = 0.00015

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
1.38	1.38	4	7	-46.23	1.31	0.00	1.18
0.38	0.38	7	10	-23.03	0.62	0.00	0.59
0.81	0.81	10	12	-34.70	2.39	0.00	0.89
0.36	0.36	15	333	-65.02	0.55	0.00	0.74
0.45	0.45	20	15	73.40	0.27	0.00	0.83
0.17	0.17	22	331	-14.99	0.20	0.00	0.38
0.00	0.00	35	29	1.76	0.01	0.00	0.04
0.00	0.00	36	195	0.57	0.00	0.00	0.01
0.00	0.00	76	277	1.99	0.01	0.00	0.05
0.00	0.00	77	82	1.97	0.01	0.00	0.05
0.00	0.00	79	83	0.47	0.00	0.00	0.01
0.02	0.02	80	97	-4.88	0.02	0.00	0.12
0.00	0.00	86	77	2.15	0.00	0.00	0.05
0.05	0.05	87	77	7.94	0.11	0.00	0.20

	92	70	76	13.91	0.42	0.00	0.36
0.15	0.15						
	94	97	70	23.55	0.69	0.00	0.60
0.40	0.40						
	96	68	90	17.98	0.19	0.00	0.46
0.24	0.24						
	108	67	68	21.74	0.92	0.00	0.55
0.34	0.34						
	124	90	185	20.45	0.48	0.00	0.52
0.40	0.40						
	134	128	260	10.19	0.45	0.01	0.26
0.13	0.13						
	185	16	122	31.08	0.20	0.00	0.35
0.09	0.09						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	16.94	0.64	0.00	0.43
0.22	0.22						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-155.75	1.57	0.23	1.77
2.08	1.82						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-11.08	0.05	0.00	0.13
0.01	0.01						
	432	261	67	18.58	0.76	0.00	0.47
0.39	0.39						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
67.08	36	Catnip Hill	0.02(0.10)	1144.80	990.00	154.80
104.91	66	Keene 4 way	0.43(0.10)	1147.11	905.00	242.11
101.23	79	James Lane E	0.34(0.10)	1148.61	915.00	233.61
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
129.40	173	Stirling Est	0.30(0.10)	1148.61	850.00	298.61
101.23	182	End of Parke	0.26(0.10)	1148.61	915.00	233.61
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	96	48.63
173	129.40	15	48.97
53	126.56	O-AV-1	48.97
60	125.69	I-AV-1	48.97

133	121.36	16	50.82
318	121.36	192	51.10
323	121.36	TANK-A	51.57
178	117.91	TANK-C	51.79
I-RV-R1	117.91	137	52.03
276	117.03	200	52.03

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	11.03	199	0.00
3	2.49	391	0.00
296	2.08	441	0.00
9	1.75	201	0.00
11	1.38	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	1.82	199	0.00
9	1.75	391	0.00
38	1.75	441	0.00
11	1.38	201	0.00
418	1.09	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	98.50	73.70	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.55	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	117.91	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	75.91	52.03	0.00

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
FGN-BB	0.19	
R-1	682.36	KAWC Tank

TANK-B -366.33 New Tank - P
TANK-C -265.02 Chinkapin Ta

NET SYSTEM INFLOW = 682.55
NET SYSTEM OUTFLOW = -631.35
NET SYSTEM DEMAND = 51.20

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

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.88	TANK-B(1)	366.33	1144.50	9.50	139612.	26.4	FILLING
11.66	TANK-C(1)	265.02	1144.53	11.53	331821.	30.3	FILLING

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

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Time: 26.250

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 = 26.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 26.250
Time: 26.500
Time: 26.750
Time: 27.000

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 = 27.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 27.000

TIME FROM INITIATION OF EPS = 27.0000 HOURS (3.00AM, DAY: 2)

RESULTS OBTAINED AFTER 13 TRIALS: ACCURACY = 0.00022

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE HL+ML/ NAME	HL/ NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)
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0.35	11 0.35	4	7	-21.87	0.33	0.00	0.56
0.10	12 0.10	7	10	-11.40	0.17	0.00	0.29
0.23	15 0.23	10	12	-17.42	0.67	0.00	0.44
0.11	18 0.11	15	333	-35.08	0.17	0.00	0.40
0.64	20 0.64	16	15	88.33	0.38	0.00	1.00
0.08	22 0.08	155	331	-10.03	0.09	0.00	0.26
0.02	35 0.02	153	29	4.41	0.04	0.00	0.11
0.00	36 0.00	29	195	1.43	0.00	0.00	0.04
0.02	76 0.02	65	277	4.97	0.06	0.00	0.13
0.02	77 0.02	65	82	4.92	0.06	0.00	0.13
0.00	79 0.00	82	83	1.18	0.00	0.00	0.03
0.00	80 0.00	67	97	0.27	0.00	0.00	0.01
0.02	86 0.02	76	77	4.41	0.02	0.00	0.11
0.01	87 0.01	75	77	2.38	0.01	0.00	0.06
0.04	92 0.04	70	76	6.45	0.10	0.00	0.16

	94	97	70	13.11	0.23	0.00	0.33
0.13	0.13						
	96	68	90	7.84	0.04	0.00	0.20
0.05	0.05						
	108	67	68	10.29	0.23	0.00	0.26
0.09	0.09						
	124	90	185	8.51	0.09	0.00	0.22
0.08	0.08						
	134	128	260	5.04	0.12	0.00	0.13
0.04	0.03						
	185	16	122	-10.58	0.03	0.00	0.12
0.01	0.01						
	224	204	203	0.65	0.00	0.00	0.02
0.00	0.00						
	251	28	153	5.08	0.01	0.00	0.13
0.02	0.02						
	255	64	157	0.34	0.00	0.00	0.01
0.00	0.00						
	257	75	159	0.78	0.00	0.00	0.02
0.00	0.00						
	263	77	160	6.70	0.07	0.00	0.17
0.05	0.05						
	278	226	64	0.91	0.00	0.00	0.02
0.00	0.00						
	281	96	167	16.40	0.61	0.00	0.42
0.20	0.20						
	286	65	168	-5.05	0.04	0.00	0.13
0.03	0.03						
	296	333	2	-86.96	0.53	0.07	0.99
0.70	0.62						
	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	0.00						
	395	200	288	0.36	0.00	0.00	0.01
0.00	0.00						
	396	122	332	7.46	0.02	0.00	0.08
0.01	0.01						
	432	261	67	9.12	0.20	0.00	0.23
0.10	0.10						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
67.32	36	Catnip Hill	0.06(0.25)	1145.36	990.00	155.36
104.40	66	Keene 4 way	1.08(0.25)	1145.93	905.00	240.93
100.18	79	James Lane E	0.85(0.25)	1146.19	915.00	231.19
67.14	131	Drakes Ln EO	0.20(0.25)	1089.95	935.00	154.95
108.31	157	KY1267 EOL	0.34(0.25)	1089.95	840.00	249.95
128.35	173	Stirling Est	0.76(0.25)	1146.19	850.00	296.19
100.19	182	End of Parke	0.64(0.25)	1146.20	915.00	231.20
56.35	217	Bark Woods	0.64(0.25)	1090.04	960.00	130.04
64.98	233	Hagin EOL	0.29(0.25)	1089.94	940.00	149.94

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)
322	149.48	96	48.86
173	128.35	15	49.15
53	126.51	O-AV-1	49.15
60	125.64	I-AV-1	49.15
318	121.31	16	51.04
133	121.31	192	51.14

323	121.31	238	51.22
178	117.38	TANK-A	51.75
I-RV-R1	117.38	137	52.01
276	117.01	200	52.01

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	2.70	199	0.00
296	0.70	441	0.00
3	0.69	391	0.00
20	0.64	130	0.00
470	0.54	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	0.64	199	0.00
296	0.62	441	0.00
9	0.47	391	0.00
38	0.47	130	0.00
11	0.35	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.92	73.68	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.66	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	117.38	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	76.13	52.01	0.00

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
FGN-BB	0.49	
R-1	352.74	KAWC Tank
TANK-B	-16.46	New Tank - P
TANK-C	-208.77	Chinkapin Ta

NET SYSTEM INFLOW = 353.23
 NET SYSTEM OUTFLOW = -225.23
 NET SYSTEM DEMAND = 128.00

TANK STATUS REPORT (time = 27.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.90	TANK-B(1)	16.46	1145.88	10.88	159820.	30.2	FILLING
12.23	TANK-C(1)	208.77	1145.12	12.12	348836.	31.9	FILLING

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

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 Time: 27.250

CHANGES FOR NEXT SIMULATION (time = 27.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 27.250
 Time: 27.500
 Time: 27.750
 Time: 28.000

CHANGES FOR NEXT SIMULATION (time = 28.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1142.000
 Time: 28.000

TIME FROM INITIATION OF EPS = 28.0000 HOURS (4.00AM, DAY: 2)

RESULTS OBTAINED AFTER 20 TRIALS: ACCURACY = 0.00004

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.03	11	4	7	5.72	0.03	0.00	0.15
0.00	12	7	10	1.42	0.00	0.00	0.04
0.00	15	10	12	1.47	0.01	0.00	0.04
0.02	18	15	333	11.99	0.02	0.00	0.14
0.01	20	16	15	7.69	0.00	0.00	0.09
0.02	22	155	331	-4.30	0.02	0.00	0.11
0.07	35	153	29	9.30	0.18	0.00	0.24
0.01	36	29	195	3.20	0.01	0.00	0.08
0.07	76	65	277	8.93	0.17	0.00	0.23
0.06	77	65	82	8.78	0.17	0.00	0.22
0.00	79	82	83	1.97	0.01	0.00	0.05
0.04	80	67	97	6.36	0.04	0.00	0.16
0.07	86	76	77	9.03	0.07	0.00	0.23
0.00	87	75	77	-1.38	0.00	0.00	0.04
0.00	92	70	76	0.83	0.00	0.00	0.02
0.05	94	97	70	8.00	0.09	0.00	0.20

	96	68	90	-2.78	0.01	0.00	0.07
0.01	0.01						
	108	67	68	-1.13	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-3.76	0.02	0.00	0.10
0.02	0.02						
	134	128	260	0.24	0.00	0.00	0.01
0.00	0.00						
	185	16	122	-22.61	0.11	0.00	0.26
0.05	0.05						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	-1.94	0.01	0.00	0.05
0.00	0.00						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	28.08	0.07	0.01	0.32
0.08	0.08						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	15.56	0.10	0.00	0.18
0.03	0.03						
	432	261	67	-0.18	0.00	0.00	0.00
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
67.37	36	Catnip Hill	0.12(0.50)	1145.47	990.00	155.47
104.01	66	Keene 4 way	2.16(0.50)	1145.02	905.00	240.02
99.46	79	James Lane E	1.71(0.50)	1144.52	915.00	229.52
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70
108.20	157	KY1267 EOL	0.67(0.50)	1089.69	840.00	249.69
127.63	173	Stirling Est	1.52(0.50)	1144.53	850.00	294.53
99.47	182	End of Parke	1.29(0.50)	1144.54	915.00	229.54
56.34	217	Bark Woods	1.29(0.50)	1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)	1089.68	940.00	149.68

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)
322	149.36	96	48.75
173	127.63	15	49.19
53	126.40	O-AV-1	49.19
60	125.53	I-AV-1	49.19
133	121.21	238	49.92
318	121.20	16	50.92
323	121.20	192	50.99
276	116.97	TANK-A	51.79
178	116.92	137	52.00

I-RV-R1 116.92 200 52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	0.99	227	0.00
121	0.35	103	0.00
263	0.18	199	0.00
242	0.15	187	0.00
320	0.15	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.54	227	0.00
263	0.18	103	0.00
320	0.15	199	0.00
242	0.14	187	0.00
348	0.14	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.51	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.40	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	116.92	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	75.94	52.00	19.60

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
FGN-BB	0.97	
R-1	0.00	KAWC Tank
TANK-B	220.37	New Tank - P
TANK-C	34.65	Chinkapin Ta

NET SYSTEM INFLOW = 255.99
 NET SYSTEM OUTFLOW = 0.00

NET SYSTEM DEMAND = 255.99

TANK STATUS REPORT (time = 28.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.77	TANK-B(1)	-220.37	1145.99	10.99	161502.	30.5	DRAINING
12.50	TANK-C(1)	-34.65	1145.52	12.52	360465.	32.9	DRAINING

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

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Time: 28.250

CHANGES FOR NEXT SIMULATION (time = 28.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 28.250
Time: 28.500
Time: 28.750
Time: 29.000

CHANGES FOR NEXT SIMULATION (time = 29.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1133.000
 Time: 29.000

TIME FROM INITIATION OF EPS = 29.0000 HOURS (5.00AM, DAY: 2)

RESULTS OBTAINED AFTER 13 TRIALS: ACCURACY = 0.00004

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.03	11	4	7	5.93	0.03	0.00	0.15
0.00	12	7	10	1.48	0.00	0.00	0.04
0.00	15	10	12	1.52	0.01	0.00	0.04
0.04	18	15	333	18.95	0.06	0.00	0.22
0.20	20	16	15	-47.20	0.12	0.00	0.54
0.01	22	155	331	-2.40	0.01	0.00	0.06
0.07	35	153	29	9.30	0.18	0.00	0.24
0.01	36	29	195	3.20	0.01	0.00	0.08
0.07	76	65	277	8.93	0.17	0.00	0.23
0.06	77	65	82	8.78	0.17	0.00	0.22
0.00	79	82	83	1.97	0.01	0.00	0.05
0.04	80	67	97	6.41	0.04	0.00	0.16
0.07	86	76	77	9.03	0.07	0.00	0.23
0.00	87	75	77	-1.37	0.00	0.00	0.03
0.00	92	70	76	0.94	0.00	0.00	0.02
0.06	94	97	70	8.12	0.10	0.00	0.21
0.00	96	68	90	-2.15	0.00	0.00	0.06
0.00	108	67	68	-0.45	0.00	0.00	0.01

	124	90	185	-3.10	0.01	0.00	0.08
0.01	0.01						
	134	128	260	0.53	0.00	0.00	0.01
0.00	0.00						
	185	16	122	-6.54	0.01	0.00	0.07
0.01	0.01						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	-9.21	0.21	0.00	0.24
0.07	0.07						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	46.99	0.17	0.02	0.53
0.22	0.20						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	12.15	0.06	0.00	0.14
0.02	0.02						
	432	261	67	0.42	0.00	0.00	0.01
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
67.25	36	Catnip Hill	0.12(0.50)	1145.19	990.00	155.19
103.82	66	Keene 4 way	2.16(0.50)	1144.58	905.00	239.58
99.27	79	James Lane E	1.71(0.50)	1144.08	915.00	229.08
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70
108.20	157	KY1267 EOL	0.67(0.50)	1089.69	840.00	249.69
127.44	173	Stirling Est	1.52(0.50)	1144.09	850.00	294.09
99.28	182	End of Parke	1.29(0.50)	1144.10	915.00	229.10
56.34	217	Bark Woods	1.29(0.50)	1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)	1089.68	940.00	149.68

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)
322	149.36	96	48.59
173	127.44	15	49.08
53	126.40	O-AV-1	49.08
60	125.53	I-AV-1	49.08
133	121.21	238	49.73
318	121.20	192	50.74
323	121.20	16	50.76
276	116.97	TANK-A	51.68
279	116.87	137	52.00
178	116.73	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	0.99	227	0.00
296	0.22	187	0.00
20	0.20	198	0.00
470	0.19	199	0.00
263	0.18	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.54	227	0.00
20	0.20	187	0.00
296	0.20	198	0.00
263	0.18	199	0.00
242	0.14	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.32	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.23	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	116.73	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	75.77	52.00	19.60

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
FGN-BB	0.97	
R-1	0.00	KAWC Tank
TANK-B	132.13	New Tank - P
TANK-C	122.88	Chinkapin Ta

NET SYSTEM INFLOW = 255.99
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 255.99

TANK STATUS REPORT (time = 29.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.13	TANK-B(1)	-132.13	1145.26	10.26	150770.	28.5	DRAINING
12.30	TANK-C(1)	-122.88	1145.36	12.36	355895.	32.5	DRAINING

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

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 Time: 29.250

CHANGES FOR NEXT SIMULATION (time = 29.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 29.250
 Time: 29.500
 Time: 29.750
 Time: 30.000

CHANGES FOR NEXT SIMULATION (time = 30.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1128.000
 Time: 30.000

TIME FROM INITIATION OF EPS = 30.0000 HOURS (6.00AM, DAY: 2)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00022

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.37	0.37	4	7	22.65	0.35	0.00	0.58
0.03	0.03	7	10	5.61	0.05	0.00	0.14
0.03	0.03	10	12	5.79	0.09	0.00	0.15
0.39	0.39	15	333	67.53	0.59	0.00	0.77
1.92	1.92	16	15	-160.49	1.15	0.00	1.82
0.12	0.12	155	331	-12.58	0.14	0.00	0.32
0.91	0.91	153	29	36.82	2.26	0.00	0.94
0.12	0.12	29	195	12.55	0.12	0.00	0.32
0.89	0.89	65	277	36.55	2.35	0.00	0.93
0.87	0.87	65	82	35.97	2.31	0.00	0.92
0.06	0.06	82	83	8.20	0.09	0.00	0.21
0.48	0.48	67	97	26.04	0.49	0.00	0.66
0.88	0.88	76	77	36.34	0.88	0.00	0.93
0.02	0.02	75	77	-5.22	0.05	0.00	0.13
0.02	0.02	70	76	4.72	0.06	0.00	0.12
0.77	0.77	97	70	33.72	1.35	0.00	0.86
0.04	0.04	68	90	-7.23	0.04	0.00	0.18
0.00	0.00	67	68	-0.12	0.00	0.00	0.00
0.13	0.13	90	185	-11.06	0.15	0.00	0.28
0.04	0.03	128	260	5.08	0.12	0.00	0.13

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
66.38	36	Catnip Hill	0.47(2.00)	1143.18	990.00	153.18
100.08	66	Keene 4 way	8.63(2.00)	1135.95	905.00	230.95
92.92	79	James Lane E	6.82(2.00)	1129.43	915.00	214.43
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
121.15	173	Stirling Est	6.10(2.00)	1129.58	850.00	279.58
93.05	182	End of Parke	5.16(2.00)	1129.73	915.00	214.73
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	238	47.02
53	124.68	96	47.60
60	123.85	15	48.57
173	121.15	O-AV-1	48.57
133	119.62	I-AV-1	48.57
318	119.58	192	49.63
323	119.47	16	49.80
276	116.78	TANK-A	51.17
279	115.27	100	51.42
268	114.56	11	51.42

H L + M L / 1 0 0 0

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

303	6.70	248	0.00
304	4.04	99	0.00
263	2.41	108	0.00
296	2.37	213	0.00
470	2.27	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	248	0.00
263	2.37	99	0.00
296	2.07	108	0.00
20	1.92	213	0.00
242	1.83	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	93.22	73.60	32.85
RV-2	PRV-1	86.70	ACTIVATED	106.86	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	112.48	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	73.27	52.00	126.90

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
FGN-BB	44.56	
R-1	0.00	KAWC Tank
TANK-B	547.85	New Tank - P
TANK-C	431.55	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 30.0000 hours)

TANK NET WATER TANK TANK TANK TANK
 PROJECTED

DEPTH (ft)	NAME (*)	FLOW (gpm)	ELEVATION (ft)	DEPTH (ft)	VOLUME (gal)	VOLUME (%)	STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.22	TANK-B(1)	-547.85	1144.78	9.78	143640.	27.2	DRAINING
11.85	TANK-C(1)	-431.55	1145.08	12.08	347725.	31.8	DRAINING

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

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 Time: 30.250

CHANGES FOR NEXT SIMULATION (time = 30.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 30.250
 Time: 30.500
 Time: 30.750
 Time: 31.000

CHANGES FOR NEXT SIMULATION (time = 31.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1137.000
 Time: 31.000

TIME FROM INITIATION OF EPS = 31.0000 HOURS (7.00AM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.28	11	4	7	19.56	0.27	0.00	0.50
0.02	0.28						
0.02	12	7	10	4.83	0.03	0.00	0.12
0.02	0.02						
0.02	15	10	12	5.00	0.07	0.00	0.13
0.02	0.02						
0.35	18	15	333	64.43	0.54	0.00	0.73
0.35	0.35						
2.23	20	16	15	-174.10	1.34	0.00	1.98
2.23	2.23						
0.09	22	155	331	-10.50	0.10	0.00	0.27
0.09	0.09						
0.71	35	153	29	32.23	1.77	0.00	0.82
0.71	0.71						
0.10	36	29	195	10.99	0.10	0.00	0.28
0.10	0.10						
0.70	76	65	277	31.95	1.83	0.00	0.82
0.70	0.70						
0.68	77	65	82	31.44	1.80	0.00	0.80
0.68	0.68						
0.04	79	82	83	7.16	0.07	0.00	0.18
0.04	0.04						
0.37	80	67	97	22.60	0.38	0.00	0.58
0.37	0.37						
0.69	86	76	77	31.80	0.69	0.00	0.81
0.69	0.69						
0.02	87	75	77	-4.54	0.04	0.00	0.12
0.02	0.02						
0.02	92	70	76	4.26	0.05	0.00	0.11
0.02	0.02						
0.61	94	97	70	29.67	1.06	0.00	0.76
0.61	0.61						
0.03	96	68	90	-5.56	0.02	0.00	0.14
0.03	0.03						
0.00	108	67	68	0.70	0.00	0.00	0.02
0.00	0.00						
0.09	124	90	185	-8.90	0.10	0.00	0.23
0.09	0.09						
0.04	134	128	260	5.66	0.15	0.00	0.14
0.04	0.04						
0.02	185	16	122	-15.18	0.05	0.00	0.17
0.02	0.02						
0.01	224	204	203	3.76	0.02	0.00	0.10
0.01	0.01						

	251	28	153	36.92	0.27	0.02	0.94
0.96	0.91						
	255	64	157	2.35	0.02	0.00	0.06
0.01	0.01						
	257	75	159	5.44	0.02	0.00	0.14
0.03	0.03						
	263	77	160	46.90	2.59	0.04	1.20
1.88	1.85						
	278	226	64	4.41	0.02	0.00	0.11
0.02	0.02						
	281	96	167	-33.38	2.26	0.00	0.85
0.76	0.76						
	286	65	168	-26.47	0.77	0.01	0.68
0.65	0.64						
	296	333	2	160.76	1.67	0.24	1.82
2.21	1.93						
	336-XX	331	115				
	382	277	204	9.20	0.11	0.00	0.23
0.07	0.07						
	395	200	288	9.03	0.26	0.01	0.23
0.07	0.07						
	396	122	332	40.91	0.58	0.00	0.46
0.15	0.15						
	432	261	67	3.50	0.03	0.00	0.09
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

133 212 337

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

TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE	EXTERNAL	HYDRAULIC	NODE	PRESSURE
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NAME PRESSURE (psi)	TITLE	DEMAND (gpm)	GRADE (ft)	ELEVATION (ft)	HEAD (ft)	
66.00	36	Catnip Hill	0.41(1.75)	1142.32	990.00	152.32
100.25	66	Keene 4 way	7.55(1.75)	1136.35	905.00	231.35
93.73	79	James Lane E	5.97(1.75)	1131.30	915.00	216.30
65.80	131	Drakes Ln EO	1.41(1.75)	1086.85	935.00	151.85
106.94	157	KY1267 EOL	2.35(1.75)	1086.80	840.00	246.80
121.95	173	Stirling Est	5.33(1.75)	1131.42	850.00	281.42
93.83	182	End of Parke	4.51(1.75)	1131.54	915.00	216.54
56.26	217	Bark Woods	4.51(1.75)	1089.83	960.00	129.83
63.54	233	Hagin EOL	2.05(1.75)	1086.64	940.00	146.64

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)
322	148.04	238	46.98
53	125.08	96	47.12
60	124.25	15	48.14
173	121.95	O-AV-1	48.14
133	119.99	I-AV-1	48.14
318	119.96	192	49.08
323	119.88	16	49.30
276	116.82	TANK-A	50.74
279	115.65	100	51.36
268	114.62	11	51.36

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	5.35	248	0.00
304	3.05	213	0.00
470	2.33	227	0.00
20	2.23	391	0.00

296 2.21 225 0.00
 H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.77	248	0.00
20	2.23	213	0.00
296	1.93	227	0.00
263	1.85	391	0.00
242	1.43	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	93.49	73.60	27.71
RV-2	PRV-1	86.70	ACTIVATED	106.93	86.70	74.55
RV-R1	PRV-1	93.20	ACTIVATED	112.77	93.20	58.34
RV-R2	PRV-1	52.00	ACTIVATED	73.14	52.00	109.91

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
FGN-BB	51.07	
R-1	0.00	KAWC Tank
TANK-B	407.41	New Tank - P
TANK-C	437.49	Chinkapin Ta

NET SYSTEM INFLOW = 895.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 895.97

T A N K S T A T U S R E P O R T (time = 31.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
(*)							

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0.00 TANK-A(1)      0.00  1153.00  0.00      0.  0.0  EMPTY
7.26 TANK-B(1)     -407.41  1142.67  7.67     112708.  21.3  DRAINING
10.92 TANK-C(1)     -437.49  1144.15  11.15     320890.  29.3  DRAINING

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

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Time: 31.250

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CHANGES FOR NEXT SIMULATION (time = 31.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 31.250
Time: 31.500
Time: 31.750
Time: 32.000

CHANGES FOR NEXT SIMULATION (time = 32.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 32.000

TIME FROM INITIATION OF EPS = 32.0000 HOURS (8.00AM, DAY: 2)

RESULTS OBTAINED AFTER 14 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

P I P E		N O D E N U M B E R S		F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ N A M E	HL/ 1000	#1	#2	(gpm)	LOSS (ft)	LOSS (ft)	VELO. (ft/s)
(ft/ft)	(ft/ft)						
0.64	11	4	7	-30.56	0.61	0.00	0.78
0.24	12	7	10	-17.84	0.39	0.00	0.46
0.55	15	10	12	-28.13	1.62	0.00	0.72
0.01	18	15	333	-7.60	0.01	0.00	0.09
1.28	20	16	15	-129.05	0.77	0.00	1.46
0.10	22	155	331	-11.24	0.12	0.00	0.29
0.30	35	153	29	20.33	0.75	0.00	0.52
0.04	36	29	195	6.96	0.04	0.00	0.18
0.29	76	65	277	19.93	0.76	0.00	0.51
0.28	77	65	82	19.60	0.75	0.00	0.50
0.02	79	82	83	4.45	0.03	0.00	0.11
0.06	80	67	97	8.18	0.06	0.00	0.21
0.28	86	76	77	19.57	0.28	0.00	0.50
0.00	87	75	77	-0.42	0.00	0.00	0.01
0.08	92	70	76	9.70	0.21	0.00	0.25
0.55	94	97	70	28.11	0.96	0.00	0.72
0.12	96	68	90	12.11	0.09	0.00	0.31
0.23	108	67	68	17.39	0.61	0.00	0.44
0.14	124	90	185	11.70	0.17	0.00	0.30
0.10	134	128	260	8.82	0.34	0.01	0.23
0.29	185	16	122	57.74	0.62	0.00	0.66
0.01	224	204	203	2.33	0.01	0.00	0.06
0.41	251	28	153	23.28	0.12	0.01	0.59
0.00	255	64	157	1.47	0.01	0.00	0.04
	0.00						

	257	75	159	3.42	0.01	0.00	0.09
0.01	0.01						
	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.66	0.01	0.00	0.07
0.01	0.01						
	281	96	167	-21.54	1.00	0.00	0.55
0.34	0.34						
	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						
	296	333	2	8.83	0.01	0.00	0.10
0.01	0.01						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	12.14	0.06	0.00	0.14
0.02	0.02						
	432	261	67	16.41	0.60	0.00	0.42
0.31	0.31						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
 98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

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)
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65.99	36	Catnip Hill	0.26(1.10)	1142.29	990.00 152.29
102.02	66	Keene 4 way	4.75(1.10)	1140.43	905.00 235.43
97.11	79	James Lane E	3.75(1.10)	1139.09	915.00 224.09
66.59	131	Drakes Ln EO	0.88(1.10)	1088.67	935.00 153.67
107.75	157	KY1267 EOL	1.47(1.10)	1088.65	840.00 248.65
125.29	173	Stirling Est	3.35(1.10)	1139.14	850.00 289.14
97.15	182	End of Parke	2.84(1.10)	1139.19	915.00 224.19
56.31	217	Bark Woods	2.84(1.10)	1089.96	960.00 129.96
64.39	233	Hagin EOL	1.29(1.10)	1088.58	940.00 148.58

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)
322	148.89	96	47.30
53	125.92	15	48.10
173	125.29	O-AV-1	48.10
60	125.07	I-AV-1	48.10
133	120.77	192	49.19
318	120.75	16	49.50
323	120.72	238	50.52
276	116.90	TANK-A	50.70
279	116.43	TANK-C	51.23
178	114.78	137	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	6.26	354	0.00
303	2.65	143	0.00
3	1.99	227	0.00
20	1.28	248	0.00
304	1.10	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.41	354	0.00
20	1.28	143	0.00
9	1.03	227	0.00
38	1.03	248	0.00
418	0.97	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.49	73.60	13.31
RV-2	PRV-1	86.70	ACTIVATED	108.19	86.70	51.42
RV-R1	PRV-1	93.20	ACTIVATED	114.78	93.20	40.47
RV-R2	PRV-1	52.00	ACTIVATED	73.97	52.00	64.84

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
FGN-BB	2.14	
R-1	607.70	KAWC Tank
TANK-B	-254.14	New Tank - P
TANK-C	207.48	Chinkapin Ta

NET SYSTEM INFLOW = 817.31
 NET SYSTEM OUTFLOW = -254.14
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 32.0000 hours)

PROJECTED DEPTH	TANK NAME	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY

6.36	TANK-B(1)	254.14	1141.10	6.10	89659.	17.0	FILLING
10.11	TANK-C(1)	-207.48	1143.21	10.21	294083.	26.9	DRAINING

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

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 Time: 32.250

CHANGES FOR NEXT SIMULATION (time = 32.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 32.250
 Time: 32.500
 Time: 32.750
 Time: 33.000

CHANGES FOR NEXT SIMULATION (time = 33.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1163.000
 Time: 33.000

TIME FROM INITIATION OF EPS = 33.0000 HOURS (9.00AM, DAY: 2)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00036

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ HL/					

N A M E		#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
-----	-----						
	11	4	7	-57.99	2.00	0.00	1.48
2.10	2.10						
	12	7	10	-30.45	1.05	0.00	0.78
0.64	0.64						
	15	10	12	-46.64	4.14	0.00	1.19
1.40	1.40						
	18	15	333	-69.71	0.62	0.00	0.79
0.41	0.41						
	20	16	15	12.66	0.01	0.00	0.14
0.02	0.02						
	22	155	331	-17.25	0.26	0.00	0.44
0.22	0.22						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	1.60	0.00	0.00	0.04
0.00	0.00						
	86	76	77	12.96	0.13	0.00	0.33
0.13	0.13						
	87	75	77	6.18	0.07	0.00	0.16
0.03	0.03						
	92	70	76	17.85	0.66	0.00	0.46
0.24	0.24						
	94	97	70	36.86	1.59	0.00	0.94
0.91	0.91						
	96	68	90	21.77	0.27	0.00	0.56
0.34	0.34						
	108	67	68	28.60	1.53	0.00	0.73
0.57	0.57						
	124	90	185	23.56	0.62	0.00	0.60
0.52	0.52						
	134	128	260	13.87	0.79	0.01	0.35
0.23	0.22						
	185	16	122	48.78	0.46	0.00	0.55
0.21	0.21						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						

	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	7.99	0.16	0.00	0.20
0.05	0.05						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-164.33	1.73	0.25	1.86
2.30	2.01						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	-1.23	0.00	0.00	0.01
0.00	0.00						
	432	261	67	25.46	1.36	0.00	0.65
0.69	0.69						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

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66.19	36	Catnip Hill	0.18(0.75)1142.75	990.00	152.75
103.28	66	Keene 4 way	3.24(0.75)1143.34	905.00	238.34
99.52	79	James Lane E	2.56(0.75)1144.66	915.00	229.66
66.88	131	Drakes Ln EO	0.60(0.75)1089.35	935.00	154.35
108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
127.70	173	Stirling Est	2.29(0.75)1144.69	850.00	294.69
99.54	182	End of Parke	1.93(0.75)1144.71	915.00	229.71
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
322	149.20	96	47.69
173	127.70	15	48.16
53	126.23	O-AV-1	48.16
60	125.37	I-AV-1	48.16
133	121.05	16	49.90
318	121.05	192	50.06
323	121.03	TANK-A	50.76
276	116.93	TANK-C	51.08
279	116.72	137	52.00
178	116.13	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	18.68	227	0.00
3	4.72	151	0.00
9	2.86	117	0.00
296	2.30	225	0.00
11	2.10	391	0.00

H L / 1 0 0 0

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

	(ft/ft)		(ft/ft)
9	2.86	227	0.00
38	2.86	151	0.00
11	2.10	117	0.00
418	2.09	225	0.00
296	2.01	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.86	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	109.08	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	116.13	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	74.70	52.00	39.54

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
FGN-BB	1.46	
R-1	948.92	KAWC Tank
TANK-B	-401.49	New Tank - P
TANK-C	-164.90	Chinkapin Ta

NET SYSTEM INFLOW = 950.38
 NET SYSTEM OUTFLOW = -566.39
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 33.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
7.37	TANK-B(1)	401.49	1141.96	6.96	102209.	19.3	FILLING

TANK-C(1) 164.90 1142.87 9.87 284203. 26.0 FILLING
9.96

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

=====
===
Time: 33.250

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 = 33.2500
hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 33.250
Time: 33.500
Time: 33.750
Time: 34.000

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 = 34.0000
hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1161.000
Time: 34.000

TIME FROM INITIATION OF EPS = 34.0000 HOURS (10.00AM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00038

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 O D E	N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000 1000						

(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)
	11	4	7	-53.34	1.71	0.00	1.36
1.80	1.80						
	12	7	10	-28.15	0.90	0.00	0.72
0.55	0.55						
	15	10	12	-43.18	3.59	0.00	1.10
1.22	1.22						
	18	15	333	-66.24	0.57	0.00	0.75
0.37	0.37						
	20	16	15	55.95	0.16	0.00	0.63
0.27	0.27						
	22	155	331	-19.63	0.33	0.00	0.50
0.28	0.28						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	2.29	0.01	0.00	0.06
0.01	0.01						
	86	76	77	12.88	0.13	0.00	0.33
0.13	0.13						
	87	75	77	5.15	0.05	0.00	0.13
0.02	0.02						
	92	70	76	16.17	0.55	0.00	0.41
0.20	0.20						
	94	97	70	34.16	1.38	0.00	0.87
0.79	0.79						
	96	68	90	19.67	0.23	0.00	0.50
0.28	0.28						
	108	67	68	26.04	1.29	0.00	0.66
0.48	0.48						
	124	90	185	21.15	0.51	0.00	0.54
0.42	0.42						
	134	128	260	12.75	0.68	0.01	0.33
0.20	0.19						
	185	16	122	31.37	0.20	0.00	0.36
0.09	0.09						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						

	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	13.74	0.44	0.00	0.35
0.15	0.15						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-157.77	1.61	0.23	1.79
2.13	1.86						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	9.93	0.04	0.00	0.11
0.01	0.01						
	432	261	67	23.30	1.16	0.00	0.59
0.59	0.59						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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36 Catnip Hill 0.18(0.75)1143.33 990.00 153.33
66.44

103.58	66	Keene 4 way	3.24(0.75)1144.02	905.00	239.02
99.67	79	James Lane E	2.56(0.75)1145.01	915.00	230.01
66.88	131	Drakes Ln EO	0.60(0.75)1089.35	935.00	154.35
108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
127.85	173	Stirling Est	2.29(0.75)1145.03	850.00	295.03
99.69	182	End of Parke	1.93(0.75)1145.06	915.00	230.06
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
322	149.20	96	47.99
173	127.85	15	48.40
53	126.23	O-AV-1	48.40
60	125.37	I-AV-1	48.40
133	121.05	16	50.20
318	121.05	192	50.48
323	121.03	TANK-A	51.00
276	116.93	TANK-C	51.26
279	116.72	137	52.00
178	116.42	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	15.94	151	0.00
3	4.09	227	0.00
9	2.46	225	0.00
296	2.13	391	0.00
418	1.83	201	0.00

H L / 1 0 0 0

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

9	2.46	151	0.00
38	2.46	227	0.00
296	1.86	225	0.00
418	1.83	391	0.00
11	1.80	201	0.00

REGULATING VALVE REPORT

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.14	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	109.42	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	116.42	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	75.05	52.00	39.54

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
FGN-BB	1.46	
R-1	881.10	KAWC Tank
TANK-B	-272.57	New Tank - P
TANK-C	-226.00	Chinkapin Ta

NET SYSTEM INFLOW = 882.55
 NET SYSTEM OUTFLOW = -498.57
 NET SYSTEM DEMAND = 383.99

TANK STATUS REPORT (time = 34.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
8.71	TANK-B(1)	272.57	1143.43	8.43	123782.	23.4	FILLING
10.40	TANK-C(1)	226.00	1143.29	10.29	296126.	27.1	FILLING

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

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Time: 34.250

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 = 34.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 34.250
Time: 34.500
Time: 34.750
Time: 35.000

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 = 35.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000
Time: 35.000

TIME FROM INITIATION OF EPS = 35.0000 HOURS (11.00AM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00019

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 O D E	N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ HL/	#1	#2		LOSS	LOSS	VELO.
1000 1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft) (ft/ft)						

	11	4	7	-45.29	1.26	0.00	1.16
1.33	1.33						
	12	7	10	-26.00	0.78	0.00	0.66
0.48	0.48						
	15	10	12	-40.79	3.23	0.00	1.04
1.09	1.09						
	18	15	333	-48.90	0.32	0.00	0.55
0.21	0.21						
	20	16	15	57.32	0.17	0.00	0.65
0.29	0.29						
	22	155	331	-21.44	0.38	0.00	0.55
0.33	0.33						
	35	153	29	27.65	1.33	0.00	0.71
0.53	0.53						
	36	29	195	9.43	0.07	0.00	0.24
0.07	0.07						
	76	65	277	27.34	1.37	0.00	0.70
0.52	0.52						
	77	65	82	26.90	1.35	0.00	0.69
0.51	0.51						
	79	82	83	6.12	0.05	0.00	0.16
0.03	0.03						
	80	67	97	11.83	0.11	0.00	0.30
0.11	0.11						
	86	76	77	26.92	0.51	0.00	0.69
0.51	0.51						
	87	75	77	-0.92	0.00	0.00	0.02
0.00	0.00						
	92	70	76	12.40	0.34	0.00	0.32
0.12	0.12						
	94	97	70	37.14	1.61	0.00	0.95
0.92	0.92						
	96	68	90	15.14	0.14	0.00	0.39
0.17	0.17						
	108	67	68	21.97	0.94	0.00	0.56
0.35	0.35						
	124	90	185	14.11	0.24	0.00	0.36
0.20	0.20						
	134	128	260	11.74	0.58	0.01	0.30
0.17	0.16						
	185	16	122	0.87	0.00	0.00	0.01
0.00	0.00						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						
	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						

	281	96	167	10.07	0.25	0.00	0.26
0.08	0.08						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						
	296	333	2	-117.15	0.93	0.13	1.33
1.22	1.07						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						
	396	122	332	35.37	0.44	0.00	0.40
0.12	0.12						
	432	261	67	20.93	0.95	0.00	0.53
0.48	0.48						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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--	36	Catnip Hill	0.35(1.50)	1143.47	990.00	153.47
66.50						
102.70	66	Keene 4 way	6.47(1.50)	1142.00	905.00	237.00

97.39	79	James Lane E	5.12(1.50)	1139.75	915.00	224.75
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00	152.64
107.29	157	KY1267 EOL	2.01(1.50)	1087.59	840.00	247.59
125.60	173	Stirling Est	4.57(1.50)	1139.84	850.00	289.84
97.47	182	End of Parke	3.87(1.50)	1139.93	915.00	224.93
56.28	217	Bark Woods	3.87(1.50)	1089.89	960.00	129.89
63.91	233	Hagin EOL	1.76(1.50)	1087.48	940.00	147.48

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)
322	148.41	96	48.12
173	125.60	15	48.56
53	125.45	O-AV-1	48.56
60	124.60	I-AV-1	48.56
133	120.33	16	50.37
318	120.30	192	50.51
323	120.24	TANK-A	51.16
276	116.86	TANK-C	51.48
279	115.98	137	51.99
178	115.33	200	51.99

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	13.06	248	0.00
303	4.17	227	0.00
3	4.02	391	0.00
304	2.20	213	0.00
9	2.04	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.18	248	0.00
9	2.04	227	0.00

38	2.04	391	0.00
418	1.90	213	0.00
3	1.52	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.11	73.60	22.41
RV-2	PRV-1	86.70	ACTIVATED	108.52	86.70	65.44
RV-R1	PRV-1	93.20	ACTIVATED	115.33	93.20	51.25
RV-R2	PRV-1	52.00	ACTIVATED	74.55	52.00	92.77

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
FGN-BB	2.91	
R-1	874.08	KAWC Tank
TANK-B	41.11	New Tank - P
TANK-C	-150.13	Chinkapin Ta

NET SYSTEM INFLOW = 918.10
 NET SYSTEM OUTFLOW = -150.13
 NET SYSTEM DEMAND = 767.97

T A N K S T A T U S R E P O R T (time = 35.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.40	TANK-B(1)	-41.11	1144.44	9.44	138701.	26.2	DRAINING
10.87	TANK-C(1)	150.13	1143.79	10.79	310665.	28.4	FILLING

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

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Time: 35.250

CHANGES FOR NEXT SIMULATION (time = 35.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 35.250
Time: 35.500
Time: 35.750
Time: 36.000

CHANGES FOR NEXT SIMULATION (time = 36.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1156.000
Time: 36.000

TIME FROM INITIATION OF EPS = 36.0000 HOURS (12.00AM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

	11	4	7	-42.19	1.11	0.00	1.08
1.17	1.17						
	12	7	10	-23.50	0.65	0.00	0.60
0.39	0.39						
	15	10	12	-36.59	2.64	0.00	0.93
0.90	0.90						
	18	15	333	-47.19	0.30	0.00	0.54
0.20	0.20						
	20	16	15	41.41	0.09	0.00	0.47
0.16	0.16						
	22	155	331	-17.55	0.26	0.00	0.45
0.23	0.23						
	35	153	29	20.33	0.75	0.00	0.52
0.30	0.30						
	36	29	195	6.96	0.04	0.00	0.18
0.04	0.04						
	76	65	277	19.93	0.76	0.00	0.51
0.29	0.29						
	77	65	82	19.60	0.75	0.00	0.50
0.28	0.28						
	79	82	83	4.45	0.03	0.00	0.11
0.02	0.02						
	80	67	97	7.17	0.05	0.00	0.18
0.04	0.04						
	86	76	77	19.42	0.28	0.00	0.50
0.28	0.28						
	87	75	77	0.69	0.00	0.00	0.02
0.00	0.00						
	92	70	76	11.81	0.31	0.00	0.30
0.11	0.11						
	94	97	70	31.32	1.17	0.00	0.80
0.67	0.67						
	96	68	90	14.81	0.13	0.00	0.38
0.17	0.17						
	108	67	68	20.76	0.85	0.00	0.53
0.31	0.31						
	124	90	185	15.01	0.27	0.00	0.38
0.22	0.22						
	134	128	260	10.66	0.49	0.01	0.27
0.14	0.14						
	185	16	122	13.14	0.04	0.00	0.15
0.02	0.02						
	224	204	203	2.33	0.01	0.00	0.06
0.01	0.01						
	251	28	153	23.28	0.12	0.01	0.59
0.41	0.39						
	255	64	157	1.47	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.42	0.01	0.00	0.09
0.01	0.01						
	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.66	0.01	0.00	0.07
0.01	0.01						
	281	96	167	8.69	0.19	0.00	0.22
0.06	0.06						

	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						
	296	333	2	-112.42	0.86	0.12	1.28
1.13	0.99						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	24.65	0.23	0.00	0.28
0.06	0.06						
	432	261	67	19.26	0.81	0.00	0.49
0.41	0.41						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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66.69	36	Catnip Hill	0.26(1.10)	1143.91	990.00	153.91
103.28	66	Keene 4 way	4.75(1.10)	1143.33	905.00	238.33
98.55	79	James Lane E	3.75(1.10)	1142.43	915.00	227.43

66.59	131	Drakes Ln EO	0.88(1.10)1088.67	935.00	153.67
107.75	157	KY1267 EOL	1.47(1.10)1088.65	840.00	248.65
126.74	173	Stirling Est	3.35(1.10)1142.48	850.00	292.48
98.60	182	End of Parke	2.84(1.10)1142.53	915.00	227.53
56.31	217	Bark Woods	2.84(1.10)1089.96	960.00	129.96
64.39	233	Hagin EOL	1.29(1.10)1088.58	940.00	148.58

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)
322	148.89	96	48.21
173	126.74	15	48.65
53	125.92	O-AV-1	48.65
60	125.07	I-AV-1	48.65
133	120.77	16	50.43
318	120.75	192	50.55
323	120.72	TANK-A	51.25
276	116.90	TANK-C	51.60
279	116.43	137	52.00
178	116.04	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	10.87	227	0.00
3	3.15	248	0.00
303	2.65	391	0.00
9	1.72	225	0.00
418	1.48	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.72	227	0.00
38	1.72	248	0.00
418	1.48	391	0.00
303	1.41	225	0.00

3 1.20 201 0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.76	73.60	13.31
RV-2	PRV-1	86.70	ACTIVATED	109.25	86.70	51.42
RV-R1	PRV-1	93.20	ACTIVATED	116.04	93.20	40.47
RV-R2	PRV-1	52.00	ACTIVATED	75.04	52.00	64.84

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
FGN-BB	2.14	
R-1	770.98	KAWC Tank
TANK-B	-71.56	New Tank - P
TANK-C	-138.38	Chinkapin Ta

NET SYSTEM INFLOW = 773.12
 NET SYSTEM OUTFLOW = -209.94
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 36.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.42	TANK-B(1)	71.56	1144.35	9.35	137321.	26.0	FILLING
11.14	TANK-C(1)	138.38	1144.07	11.07	318586.	29.1	FILLING

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

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Time: 36.250

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 = 36.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 36.250
Time: 36.500
Time: 36.750
Time: 37.000

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 = 37.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1154.000
Time: 37.000

TIME FROM INITIATION OF EPS = 37.0000 HOURS (1.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00028

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

0.94 11 4 7 -37.53 0.89 0.00 0.96
0.94 0.94

	12	7	10	-20.96	0.52	0.00	0.54
0.32	0.32						
	15	10	12	-32.65	2.14	0.00	0.83
0.73	0.73						
	18	15	333	-42.08	0.24	0.00	0.48
0.16	0.16						
	20	16	15	41.12	0.09	0.00	0.47
0.15	0.15						
	22	155	331	-15.86	0.22	0.00	0.40
0.19	0.19						
	35	153	29	18.51	0.63	0.00	0.47
0.25	0.25						
	36	29	195	6.34	0.03	0.00	0.16
0.03	0.03						
	76	65	277	18.06	0.64	0.00	0.46
0.24	0.24						
	77	65	82	17.76	0.63	0.00	0.45
0.23	0.23						
	79	82	83	4.02	0.02	0.00	0.10
0.01	0.01						
	80	67	97	6.63	0.04	0.00	0.17
0.04	0.04						
	86	76	77	17.68	0.23	0.00	0.45
0.23	0.23						
	87	75	77	0.49	0.00	0.00	0.01
0.00	0.00						
	92	70	76	10.47	0.25	0.00	0.27
0.09	0.09						
	94	97	70	28.07	0.96	0.00	0.72
0.55	0.55						
	96	68	90	13.11	0.11	0.00	0.33
0.13	0.13						
	108	67	68	18.44	0.68	0.00	0.47
0.25	0.25						
	124	90	185	13.22	0.21	0.00	0.34
0.18	0.18						
	134	128	260	9.50	0.39	0.01	0.24
0.11	0.11						
	185	16	122	9.50	0.02	0.00	0.11
0.01	0.01						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						
	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	8.35	0.17	0.00	0.21
0.06	0.06						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						

	296	333	2	-100.44	0.70	0.09	1.14
0.92	0.81						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	22.79	0.20	0.00	0.26
0.05	0.05						
	432	261	67	17.14	0.65	0.00	0.44
0.33	0.33						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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66.83	36	Catnip Hill	0.23	1144.23	990.00	154.23
103.45	66	Keene 4 way	4.31	1143.74	905.00	238.74
98.78	79	James Lane E	3.41	1142.95	915.00	227.95
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89

107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
126.96	173	Stirling Est	3.05	1142.99	850.00	292.99
98.81	182	End of Parke	2.58	1143.03	915.00	228.03
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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)
322	148.99	96	48.33
173	126.96	15	48.76
53	126.02	O-AV-1	48.76
60	125.17	I-AV-1	48.76
133	120.86	16	50.54
318	120.85	192	50.64
323	120.82	TANK-A	51.36
276	116.91	TANK-C	51.72
279	116.52	137	52.00
178	116.24	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	8.66	227	0.00
3	2.53	248	0.00
303	2.34	347	0.00
9	1.39	391	0.00
418	1.20	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.39	227	0.00
38	1.39	248	0.00
303	1.25	347	0.00
418	1.20	391	0.00
3	0.98	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.94	73.60	10.80
RV-2	PRV-1	86.70	ACTIVATED	109.50	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	116.24	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	75.23	52.00	57.71

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
FGN-BB	1.94	
R-1	689.04	KAWC Tank
TANK-B	-50.56	New Tank - P
TANK-C	-128.44	Chinkapin Ta

NET SYSTEM INFLOW = 690.98
 NET SYSTEM OUTFLOW = -179.00
 NET SYSTEM DEMAND = 511.98

T A N K S T A T U S R E P O R T (time = 37.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.68	TANK-B(1)	50.56	1144.63	9.63	141480.	26.8	FILLING
11.42	TANK-C(1)	128.44	1144.35	11.35	326834.	29.9	FILLING

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

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Time: 37.250

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 = 37.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 37.250
Time: 37.500
Time: 37.750
Time: 38.000

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 = 38.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1154.000
Time: 38.000

TIME FROM INITIATION OF EPS = 38.0000 HOURS (2.00PM, DAY: 2)

RESULTS OBTAINED AFTER 12 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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/	HL/	#1	#2		LOSS	LOSS	VELO.
N A M E				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
0.95	11	4	7	-37.75	0.90	0.00	0.96
0.29	12	7	10	-19.85	0.47	0.00	0.51

	15	10	12	-30.42	1.88	0.00	0.78
0.64	0.64						
	18	15	333	-48.22	0.31	0.00	0.55
0.21	0.21						
	20	16	15	51.53	0.14	0.00	0.58
0.23	0.23						
	22	155	331	-13.93	0.17	0.00	0.36
0.15	0.15						
	35	153	29	9.30	0.18	0.00	0.24
0.07	0.07						
	36	29	195	3.20	0.01	0.00	0.08
0.01	0.01						
	76	65	277	8.93	0.17	0.00	0.23
0.07	0.07						
	77	65	82	8.78	0.17	0.00	0.22
0.06	0.06						
	79	82	83	1.97	0.01	0.00	0.05
0.00	0.00						
	80	67	97	1.22	0.00	0.00	0.03
0.00	0.00						
	86	76	77	8.61	0.06	0.00	0.22
0.06	0.06						
	87	75	77	3.83	0.03	0.00	0.10
0.01	0.01						
	92	70	76	11.43	0.29	0.00	0.29
0.10	0.10						
	94	97	70	23.81	0.71	0.00	0.61
0.40	0.40						
	96	68	90	13.90	0.12	0.00	0.35
0.15	0.15						
	108	67	68	18.35	0.67	0.00	0.47
0.25	0.25						
	124	90	185	15.01	0.27	0.00	0.38
0.22	0.22						
	134	128	260	8.96	0.35	0.01	0.23
0.10	0.10						
	185	16	122	18.94	0.08	0.00	0.21
0.04	0.04						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	11.67	0.32	0.00	0.30
0.11	0.11						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	-115.34	0.90	0.12	1.31
1.19	1.04						
	336-XX	331	115				

	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	7.35	0.02	0.00	0.08
0.01	0.01						
	432	261	67	16.37	0.60	0.00	0.42
0.30	0.30						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
 98 212 337

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

TOTAL COST (\$)	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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67.02	36	Catnip Hill	0.12(0.50)	1144.67	990.00	154.67
104.08	66	Keene 4 way	2.16(0.50)	1145.18	905.00	240.18
100.00	79	James Lane E	1.71(0.50)	1145.77	915.00	230.77
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70
108.20	157	KY1267 EOL	0.67(0.50)	1089.69	840.00	249.69

128.17	173	Stirling Est	1.52(0.50)	1145.79	850.00	295.79
100.01	182	End of Parke	1.29(0.50)	1145.80	915.00	230.80
56.34	217	Bark Woods	1.29(0.50)	1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)	1089.68	940.00	149.68

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)
322	149.36	96	48.51
173	128.17	15	48.91
53	126.40	O-AV-1	48.91
60	125.53	I-AV-1	48.91
133	121.21	16	50.70
318	121.20	192	50.87
323	121.20	TANK-A	51.51
178	116.99	TANK-C	51.83
I-RV-R1	116.99	137	52.00
276	116.97	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	8.03	227	0.00
3	2.06	151	0.00
9	1.30	199	0.00
296	1.19	391	0.00
303	0.99	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	1.30	227	0.00
38	1.30	151	0.00
296	1.04	199	0.00
418	0.95	391	0.00
11	0.95	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.63	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.16	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	116.99	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	75.70	52.00	19.60

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
FGN-BB	0.97	
R-1	619.41	KAWC Tank
TANK-B	-182.02	New Tank - P
TANK-C	-182.37	Chinkapin Ta

NET SYSTEM INFLOW = 620.38
 NET SYSTEM OUTFLOW = -364.39
 NET SYSTEM DEMAND = 255.99

T A N K S T A T U S R E P O R T (time = 38.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.03	TANK-B(1)	182.02	1144.84	9.84	144578.	27.3	FILLING
11.71	TANK-C(1)	182.37	1144.61	11.61	334311.	30.6	FILLING

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

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 Time: 38.250

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 = 38.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 38.250
 Time: 38.500
 Time: 38.750
 Time: 39.000

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 = 39.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
 Time: 39.000

TIME FROM INITIATION OF EPS = 39.0000 HOURS (3.00PM, DAY: 2)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00080

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 HL+ML/ N A M E 1000 1000 (ft/ft) (ft/ft)	N O D E N U M B E R S		F L O W R A T E (gpm)	H E A D (ft)	M I N O R L O S S (ft)	L I N E V E L O . (ft/s)
	#1	#2				

0.35	11	4	7	-22.19	0.34	0.00	0.57
0.13	12	7	10	-12.78	0.21	0.00	0.33
0.29	15	10	12	-20.06	0.87	0.00	0.51

	18	15	333	-27.61	0.11	0.00	0.31
0.07	0.07						
	20	16	15	55.37	0.16	0.00	0.63
0.27	0.27						
	22	155	331	-11.99	0.13	0.00	0.31
0.11	0.11						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	6.08	0.03	0.00	0.16
0.03	0.03						
	86	76	77	13.50	0.14	0.00	0.34
0.14	0.14						
	87	75	77	-0.60	0.00	0.00	0.02
0.00	0.00						
	92	70	76	5.89	0.09	0.00	0.15
0.03	0.03						
	94	97	70	18.13	0.43	0.00	0.46
0.24	0.24						
	96	68	90	7.12	0.03	0.00	0.18
0.04	0.04						
	108	67	68	10.42	0.24	0.00	0.27
0.09	0.09						
	124	90	185	6.45	0.06	0.00	0.16
0.05	0.05						
	134	128	260	5.67	0.15	0.00	0.14
0.04	0.04						
	185	16	122	-9.89	0.02	0.00	0.11
0.01	0.01						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	9.75	0.23	0.00	0.25
0.08	0.08						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-67.44	0.33	0.04	0.77
0.44	0.39						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						

	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	19.12	0.14	0.00	0.22
0.04	0.04						
	432	261	67	9.99	0.24	0.00	0.25
0.12	0.12						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

	98	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

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)
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67.17	36	Catnip Hill	0.18(0.75)	1145.00	990.00	155.00
103.89	66	Keene 4 way	3.24(0.75)	1144.74	905.00	239.74
99.29	79	James Lane E	2.56(0.75)	1144.14	915.00	229.14
66.88	131	Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35
108.04	157	KY1267 EOL	1.00(0.75)	1089.33	840.00	249.33
127.47	173	Stirling Est	2.29(0.75)	1144.17	850.00	294.17

99.32	182	End of Parke	1.93(0.75)1144.19	915.00	229.19
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
322	149.20	96	48.64
173	127.47	15	49.04
53	126.23	O-AV-1	49.04
60	125.37	I-AV-1	49.04
133	121.05	16	50.84
318	121.05	192	50.92
323	121.03	238	51.03
276	116.93	TANK-A	51.64
178	116.73	137	52.00
I-RV-R1	116.73	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	3.21	227	0.00
303	1.74	225	0.00
3	1.02	391	0.00
9	0.55	201	0.00
418	0.51	248	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.94	227	0.00
9	0.55	225	0.00
38	0.55	391	0.00
418	0.51	201	0.00
3	0.41	248	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.39	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	110.08	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	116.73	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	75.70	52.00	39.54

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
FGN-BB	1.46	
R-1	430.37	KAWC Tank
TANK-B	73.88	New Tank - P
TANK-C	-121.72	Chinkapin Ta

NET SYSTEM INFLOW = 505.71
 NET SYSTEM OUTFLOW = -121.72
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 39.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.44	TANK-B(1)	-73.88	1145.51	10.51	154401.	29.2	DRAINING
12.08	TANK-C(1)	121.72	1145.01	12.01	345914.	31.6	FILLING

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

=====
 Time: 39.250

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 = 39.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 39.250
Time: 39.500
Time: 39.750
Time: 40.000

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 = 40.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1144.000
Time: 40.000

TIME FROM INITIATION OF EPS = 40.0000 HOURS (4.00PM, DAY: 2)

RESULTS OBTAINED AFTER 10 TRIALS: ACCURACY = 0.00036

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/	HL/	#1	#2		LOSS	LOSS	VELO.
N A M E				(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.05	0.05	4	7	7.62	0.05	0.00	0.19
0.00	0.00	7	10	0.62	0.00	0.00	0.02
0.00	0.00	10	12	-1.54	0.01	0.00	0.04
0.09	0.09	15	333	30.63	0.14	0.00	0.35

	20	16	15	-77.39	0.30	0.00	0.88
0.50	0.50						
	22	155	331	-10.73	0.11	0.00	0.27
0.09	0.09						
	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	15.55	0.19	0.00	0.40
0.18	0.18						
	86	76	77	22.77	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.07	0.02	0.00	0.08
0.01	0.01						
	92	70	76	3.80	0.04	0.00	0.10
0.01	0.01						
	94	97	70	22.13	0.62	0.00	0.56
0.35	0.35						
	96	68	90	-1.20	0.00	0.00	0.03
0.00	0.00						
	108	67	68	3.34	0.03	0.00	0.09
0.01	0.01						
	124	90	185	-3.61	0.02	0.00	0.09
0.02	0.02						
	134	128	260	3.13	0.05	0.00	0.08
0.01	0.01						
	185	16	122	-17.65	0.07	0.00	0.20
0.03	0.03						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-15.66	0.56	0.00	0.40
0.19	0.19						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	76.07	0.42	0.05	0.86
0.54	0.48						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						

	396	122	332	30.42	0.33	0.00	0.35
0.09	0.09						
	432	261	67	4.93	0.07	0.00	0.13
0.03	0.03						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

	98	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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66.99	36	Catnip Hill	0.29(1.25)	1144.59	990.00	154.59
102.77	66	Keene 4 way	5.39(1.25)	1142.17	905.00	237.17
97.36	79	James Lane E	4.26(1.25)	1139.69	915.00	224.69
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
125.56	173	Stirling Est	3.81(1.25)	1139.75	850.00	289.75
97.42	182	End of Parke	3.22(1.25)	1139.81	915.00	224.81

56.30	217	Bark Woods	3.22(1.25)1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)1088.20	940.00	148.20

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)
322	148.72	96	48.37
53	125.76	15	48.95
173	125.56	O-AV-1	48.95
60	124.91	I-AV-1	48.95
133	120.62	238	49.32
318	120.60	192	50.55
323	120.56	16	50.56
276	116.89	TANK-A	51.55
279	116.28	137	51.99
178	115.49	200	51.99

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	230	0.00
304	1.47	248	0.00
263	1.01	5	0.00
242	0.84	227	0.00
121	0.64	8	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	230	0.00
263	0.99	248	0.00
242	0.77	5	0.00
304	0.62	227	0.00
20	0.50	8	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING	VALVE STATUS	UPSTREAM PRESSURE	DOWNSTREAM PRESSURE	THROUGH FLOW
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			(psi or gpm)		(psi)	(psi)	(gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.18	73.60	16.85	
RV-2	PRV-1	86.70	ACTIVATED	109.14	86.70	56.57	
RV-R1	PRV-1	93.20	ACTIVATED	115.49	93.20	44.40	
RV-R2	PRV-1	52.00	ACTIVATED	75.01	52.00	75.40	

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
FGN-BB	2.43	
R-1	127.34	KAWC Tank
TANK-B	300.11	New Tank - P
TANK-C	210.10	Chinkapin Ta

NET SYSTEM INFLOW = 639.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 40.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.02	TANK-B(1)	-300.11	1145.32	10.32	151659.	28.7	DRAINING
12.10	TANK-C(1)	-210.10	1145.21	12.21	351654.	32.1	DRAINING

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

Time: 40.250

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 = 40.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 40.250
Time: 40.500
Time: 40.750
Time: 41.000

CHANGES FOR NEXT SIMULATION (time = 41.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1142.000
Time: 41.000

TIME FROM INITIATION OF EPS = 41.0000 HOURS (5.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ HL/	#1 #2		LOSS	LOSS	VELO.
NAME					

1000	1000						
(ft/ft)	(ft/ft)	(gpm)	(ft)	(ft)	(ft/s)		
0.08	11	4	7	9.90	0.08	0.00	0.25
0.00	12	7	10	-1.13	0.00	0.00	0.03
0.02	15	10	12	-4.55	0.06	0.00	0.12
0.22	18	15	333	50.38	0.34	0.00	0.57
1.55	20	16	15	-142.87	0.93	0.00	1.62
	1.55						

	22	155	331	-17.37	0.26	0.00	0.44
0.23	0.23						
	35	153	29	36.82	2.26	0.00	0.94
0.91	0.91						
	36	29	195	12.55	0.12	0.00	0.32
0.12	0.12						
	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	24.67	0.44	0.00	0.63
0.43	0.43						
	86	76	77	36.48	0.89	0.00	0.93
0.89	0.89						
	87	75	77	-4.80	0.04	0.00	0.12
0.02	0.02						
	92	70	76	6.48	0.10	0.00	0.17
0.04	0.04						
	94	97	70	35.91	1.51	0.00	0.92
0.86	0.86						
	96	68	90	-0.88	0.00	0.00	0.02
0.00	0.00						
	108	67	68	6.39	0.10	0.00	0.16
0.04	0.04						
	124	90	185	-4.78	0.03	0.00	0.12
0.03	0.03						
	134	128	260	5.43	0.14	0.00	0.14
0.04	0.04						
	185	16	122	-18.49	0.08	0.00	0.21
0.04	0.04						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-27.92	1.62	0.00	0.71
0.54	0.54						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	126.28	1.07	0.15	1.43
1.41	1.23						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	47.12	0.75	0.00	0.53
0.20	0.20						

	432	261	67	8.79	0.19	0.00	0.22
0.10	0.10						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

	98	212	337
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P U M P / L O S S E L E M E N T R E S U L T S

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

66.34	36	Catnip Hill	0.47(2.00)	1143.10	990.00	153.10
100.65	66	Keene 4 way	8.63(2.00)	1137.27	905.00	232.27
93.77	79	James Lane E	6.82(2.00)	1131.39	915.00	216.39
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
122.00	173	Stirling Est	6.10(2.00)	1131.55	850.00	281.55
93.90	182	End of Parke	5.16(2.00)	1131.69	915.00	216.69
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78

63.13 233 Hagin EOL 2.35(2.00)1085.69 940.00 145.69

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)
322	147.63	96	47.67
53	124.68	238	48.29
60	123.85	15	48.55
173	122.00	O-AV-1	48.55
133	119.62	I-AV-1	48.55
318	119.58	192	49.83
323	119.47	16	49.88
276	116.78	TANK-A	51.15
279	115.27	TANK-C	51.89
268	114.56	137	51.98

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	248	0.00
304	4.04	357	0.00
263	2.41	213	0.00
242	2.01	391	0.00
470	1.64	227	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	248	0.00
263	2.37	357	0.00
242	1.83	213	0.00
304	1.62	391	0.00
20	1.55	227	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
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RV-1    PRV-1    73.60  ACTIVATED    93.85    73.60    32.85
RV-2    PRV-1    86.70  ACTIVATED    106.97   86.70    83.84
RV-R1   PRV-1    93.20  ACTIVATED    113.05   93.20    65.57
RV-R2   PRV-1    52.00  ACTIVATED    73.39    52.00    126.90

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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

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NODE          FLOWRATE      NODE
NAME          (gpm)         TITLE
-----
FGN-BB          3.89
R-1            235.86      KAWC Tank
TANK-B         418.76      New Tank - P
TANK-C         365.46      Chinkapin Ta

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NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 41.0000 hours)

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PROJECTED TANK      NET      WATER    TANK      TANK      TANK      TANK
DEPTH     NAME      FLOW    ELEVATION  DEPTH    VOLUME    VOLUME    STATUS
(ft)      (*)      (gpm)   (ft)      (ft)     (gal)     (%)
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0.00     TANK-A(1)    0.00   1153.00   0.00      0.    0.0    EMPTY
8.83     TANK-B(1)  -418.76  1144.25   9.25     135920.  25.7   DRAINING
11.56    TANK-C(1)  -365.46  1144.75  11.75     338329.  30.9   DRAINING

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

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Time: 41.250

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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 = 41.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 41.250
Time: 41.500
Time: 41.750
Time: 42.000

CHANGES FOR NEXT SIMULATION (time = 42.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
Time: 42.000

TIME FROM INITIATION OF EPS = 42.0000 HOURS (6.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE	NODE NUMBERS	FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	#1 #2		LOSS	LOSS	VELO.
(ft/ft) (ft/ft)		(gpm)	(ft)	(ft)	(ft/s)
1000 1000					
0.13 0.13	4 7	12.67	0.12	0.00	0.32
0.00 0.00	7 10	1.18	0.00	0.00	0.03
0.00 0.00	10 12	-2.05	0.01	0.00	0.05
0.29 0.29	15 333	58.31	0.45	0.00	0.66
2.13 2.13	16 15	-169.83	1.28	0.00	1.93
0.20 0.20	155 331	-16.08	0.23	0.00	0.41

	35	153	29	36.82	2.26	0.00	0.94
0.91	0.91						
	36	29	195	12.55	0.12	0.00	0.32
0.12	0.12						
	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	24.93	0.45	0.00	0.64
0.44	0.44						
	86	76	77	36.46	0.89	0.00	0.93
0.89	0.89						
	87	75	77	-4.88	0.05	0.00	0.12
0.02	0.02						
	92	70	76	6.18	0.09	0.00	0.16
0.03	0.03						
	94	97	70	35.53	1.48	0.00	0.91
0.85	0.85						
	96	68	90	-1.85	0.00	0.00	0.05
0.00	0.00						
	108	67	68	5.44	0.07	0.00	0.14
0.03	0.03						
	124	90	185	-5.72	0.05	0.00	0.15
0.04	0.04						
	134	128	260	5.05	0.12	0.00	0.13
0.04	0.03						
	185	16	122	-12.86	0.04	0.00	0.15
0.02	0.02						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-32.53	2.15	0.00	0.83
0.72	0.72						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	146.47	1.40	0.20	1.66
1.85	1.62						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	46.26	0.73	0.00	0.52
0.19	0.19						
	432	261	67	7.99	0.16	0.00	0.20
0.08	0.08						

474-XX 245 166

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
 98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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65.88	36	Catnip Hill	0.47(2.00)	1142.03	990.00	152.03
99.97	66	Keene 4 way	8.63(2.00)	1135.69	905.00	230.69
93.03	79	James Lane E	6.82(2.00)	1129.69	915.00	214.69
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
121.27	173	Stirling Est	6.10(2.00)	1129.85	850.00	279.85
93.17	182	End of Parke	5.16(2.00)	1130.00	915.00	215.00
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	96	47.09
53	124.68	238	47.48
60	123.85	15	48.11
173	121.27	O-AV-1	48.11
133	119.62	I-AV-1	48.11
318	119.58	192	49.15
323	119.47	16	49.29
276	116.78	TANK-A	50.71
279	115.27	TANK-C	51.55
268	114.56	100	51.82

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	8	0.00
304	4.04	248	0.00
263	2.41	342	0.00
470	2.17	213	0.00
20	2.13	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	8	0.00
263	2.37	248	0.00
20	2.13	342	0.00
242	1.83	213	0.00
296	1.62	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	93.15	73.60	32.85
RV-2	PRV-1	86.70	ACTIVATED	106.38	86.70	83.83

RV-R1	PRV-1	93.20	ACTIVATED	112.37	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	72.80	52.00	126.90

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
FGN-BB	3.89	
R-1	198.21	KAWC Tank
TANK-B	399.96	New Tank - P
TANK-C	421.90	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 42.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
7.28	TANK-B(1)	-399.96	1142.69	7.69	112904.	21.4	DRAINING
10.75	TANK-C(1)	-421.90	1143.97	10.97	315855.	28.9	DRAINING

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

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 Time: 42.250

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 = 42.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 42.250
Time: 42.500
Time: 42.750
Time: 43.000

CHANGES FOR NEXT SIMULATION (time = 43.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
Time: 43.000

TIME FROM INITIATION OF EPS = 43.0000 HOURS (7.00PM, DAY: 2)

RESULTS OBTAINED AFTER 19 TRIALS: ACCURACY = 0.00027

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
0.20	11	4	7	16.50	0.19	0.00	0.42
0.02	12	7	10	4.07	0.03	0.00	0.10
0.02	15	10	12	4.22	0.05	0.00	0.11
0.30	18	15	333	59.14	0.46	0.00	0.67
2.23	20	16	15	-173.74	1.34	0.00	1.97
0.06	22	155	331	-8.85	0.07	0.00	0.23
0.53	35	153	29	27.65	1.33	0.00	0.71
0.07	36	29	195	9.43	0.07	0.00	0.24
	0.07						

	76	65	277	27.34	1.37	0.00	0.70
0.52	0.52						
	77	65	82	26.90	1.35	0.00	0.69
0.51	0.51						
	79	82	83	6.12	0.05	0.00	0.16
0.03	0.03						
	80	67	97	19.21	0.28	0.00	0.49
0.27	0.27						
	86	76	77	27.26	0.52	0.00	0.70
0.52	0.52						
	87	75	77	-3.87	0.03	0.00	0.10
0.01	0.01						
	92	70	76	3.77	0.04	0.00	0.10
0.01	0.01						
	94	97	70	25.56	0.81	0.00	0.65
0.46	0.46						
	96	68	90	-4.17	0.01	0.00	0.11
0.02	0.02						
	108	67	68	1.21	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-7.03	0.07	0.00	0.18
0.05	0.05						
	134	128	260	5.94	0.16	0.00	0.15
0.05	0.05						
	185	16	122	-2.40	0.00	0.00	0.03
0.00	0.00						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						
	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						
	281	96	167	-32.63	2.16	0.00	0.83
0.72	0.72						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						
	296	333	2	148.61	1.44	0.21	1.69
1.91	1.67						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						
	396	122	332	33.69	0.40	0.00	0.38
0.11	0.11						
	432	261	67	3.53	0.04	0.00	0.09
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

133

212

337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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65.63	36	Catnip Hill	0.35(1.50)	1141.46	990.00	151.46
100.43	66	Keene 4 way	6.47(1.50)	1136.76	905.00	231.76
94.47	79	James Lane E	5.12(1.50)	1133.00	915.00	218.00
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00	152.64
107.29	157	KY1267 EOL	2.01(1.50)	1087.59	840.00	247.59
122.67	173	Stirling Est	4.57(1.50)	1133.09	850.00	283.09
94.54	182	End of Parke	3.87(1.50)	1133.18	915.00	218.18
56.28	217	Bark Woods	3.87(1.50)	1089.89	960.00	129.89
63.91	233	Hagin EOL	1.76(1.50)	1087.48	940.00	147.48

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)
322	148.41	96	46.70
53	125.45	238	46.96
60	124.60	15	47.71
173	122.67	O-AV-1	47.71
133	120.33	I-AV-1	47.71
318	120.30	192	48.67
323	120.24	16	48.87
276	116.86	TANK-A	50.31
279	115.98	TANK-C	51.17
268	114.67	100	51.33

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	4.17	248	0.00
100	2.30	206	0.00
20	2.23	227	0.00
304	2.20	391	0.00
470	2.14	213	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.23	248	0.00
303	2.18	206	0.00
296	1.67	227	0.00
263	1.39	391	0.00
242	1.08	213	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	93.75	73.60	22.41
RV-2	PRV-1	86.70	ACTIVATED	107.02	86.70	65.44
RV-R1	PRV-1	93.20	ACTIVATED	113.05	93.20	51.25
RV-R2	PRV-1	52.00	ACTIVATED	73.04	52.00	92.77

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
FGN-BB	54.65	
R-1	0.00	KAWC Tank
TANK-B	294.46	New Tank - P
TANK-C	418.86	Chinkapin Ta

NET SYSTEM INFLOW = 767.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 767.97

T A N K S T A T U S R E P O R T (time = 43.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
5.88	TANK-B(1)	-294.46	1141.18	6.18	90822.	17.2	DRAINING
9.86	TANK-C(1)	-418.86	1143.08	10.08	290223.	26.5	DRAINING

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

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 Time: 43.250

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 = 43.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 43.250

Time: 43.500
 Time: 43.750
 Time: 44.000

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 = 44.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
 Time: 44.000

TIME FROM INITIATION OF EPS = 44.0000 HOURS (8.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00032

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.14	0.14	4	7	13.48	0.13	0.00	0.34
0.01	0.01	7	10	3.32	0.02	0.00	0.08
0.01	0.01	10	12	3.45	0.03	0.00	0.09
0.26	0.26	15	333	54.22	0.39	0.00	0.62
2.22	2.22	16	15	-173.55	1.33	0.00	1.97
0.04	0.04	155	331	-7.27	0.05	0.00	0.19
0.38	0.38	153	29	23.07	0.95	0.00	0.59
0.05	0.05	29	195	7.88	0.05	0.00	0.20
0.37	0.37	65	277	22.72	0.97	0.00	0.58
0.36	0.36	65	82	22.35	0.96	0.00	0.57

	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	15.83	0.20	0.00	0.40
0.19	0.19						
	86	76	77	22.71	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.21	0.02	0.00	0.08
0.01	0.01						
	92	70	76	3.25	0.03	0.00	0.08
0.01	0.01						
	94	97	70	21.44	0.58	0.00	0.55
0.33	0.33						
	96	68	90	-2.88	0.01	0.00	0.07
0.01	0.01						
	108	67	68	1.62	0.01	0.00	0.04
0.00	0.00						
	124	90	185	-5.25	0.04	0.00	0.13
0.03	0.03						
	134	128	260	6.05	0.17	0.00	0.15
0.05	0.05						
	185	16	122	11.01	0.03	0.00	0.12
0.01	0.01						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-31.98	2.08	0.00	0.82
0.70	0.70						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	137.36	1.24	0.18	1.56
1.65	1.44						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	26.47	0.26	0.00	0.30
0.07	0.07						
	432	261	67	3.45	0.03	0.00	0.09
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

133

212

337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
65.33	36	Catnip Hill	0.29(1.25)	1140.75	990.00	150.75
100.60	66	Keene 4 way	5.39(1.25)	1137.15	905.00	232.15
95.12	79	James Lane E	4.26(1.25)	1134.51	915.00	219.51
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
123.31	173	Stirling Est	3.81(1.25)	1134.57	850.00	284.57
95.17	182	End of Parke	3.22(1.25)	1134.63	915.00	219.63
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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	MAXIMUM	JUNCTION	MINIMUM
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NUMBER	PRESSURES (psi)	NUMBER	PRESSURES (psi)
322	148.72	96	46.36
53	125.76	238	46.95
60	124.91	15	47.36
173	123.31	O-AV-1	47.36
133	120.62	I-AV-1	47.36
318	120.60	192	48.35
323	120.56	16	48.51
276	116.89	TANK-A	49.96
279	116.28	TANK-C	50.79
268	114.71	100	51.31

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	437	0.00
100	2.46	342	0.00
20	2.22	248	0.00
470	1.97	227	0.00
296	1.65	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.22	437	0.00
303	1.67	342	0.00
296	1.44	248	0.00
263	0.99	227	0.00
242	0.77	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	94.00	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	107.11	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	113.31	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	72.97	52.00	75.40

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
FGN-BB	56.47	
R-1	0.00	KAWC Tank
TANK-B	181.75	New Tank - P
TANK-C	401.76	Chinkapin Ta

NET SYSTEM INFLOW = 639.98
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 639.98

TANK STATUS REPORT (time = 44.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
4.86	TANK-B(1)	-181.75	1140.04	5.04	74070.	14.0	DRAINING
8.99	TANK-C(1)	-401.76	1142.20	9.20	264865.	24.2	DRAINING

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

=====
Time: 44.250

CHANGES FOR NEXT SIMULATION (time = 44.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 44.250
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 PIPE Pump-1 HAS CHANGED STATUS (opened) (time = 44.2500 hours)
Time: 44.250
Time: 44.500
Time: 44.750
Time: 45.000

CHANGES FOR NEXT SIMULATION (time = 45.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1121.000
Time: 45.000

TIME FROM INITIATION OF EPS = 45.0000 HOURS (9.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00024

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE HL+ML/ NAME	HL/ 1000	NODE NUMBERS		FLOWRATE (gpm)	HEAD (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)
		#1	#2				
2.71	11	4	7	-66.52	2.57	0.00	1.70
0.86	12	7	10	-35.87	1.42	0.00	0.92
1.93	15	10	12	-55.37	5.69	0.00	1.41
0.48	18	15	333	-75.60	0.72	0.00	0.86
0.02	20	16	15	-13.61	0.01	0.00	0.15
0.41	22	155	331	-23.95	0.47	0.00	0.61
0.38	35	153	29	23.07	0.95	0.00	0.59

	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	6.14	0.03	0.00	0.16
0.03	0.03						
	86	76	77	21.54	0.34	0.00	0.55
0.34	0.34						
	87	75	77	4.38	0.04	0.00	0.11
0.02	0.02						
	92	70	76	19.86	0.81	0.00	0.51
0.29	0.29						
	94	97	70	45.63	2.36	0.00	1.16
1.35	1.35						
	96	68	90	24.50	0.34	0.00	0.63
0.43	0.43						
	108	67	68	33.09	2.01	0.00	0.84
0.74	0.74						
	124	90	185	25.86	0.74	0.00	0.66
0.61	0.61						
	134	128	260	16.41	1.08	0.02	0.42
0.31	0.31						
	185	16	122	57.18	0.61	0.00	0.65
0.28	0.28						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	4.07	0.05	0.00	0.10
0.02	0.02						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	-177.50	2.00	0.30	2.01
2.66	2.32						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	15.00	0.09	0.00	0.17
0.02	0.02						
	432	261	67	30.02	1.85	0.00	0.77
0.94	0.94						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1145.00 130.40 177.76 47.4 63.15 14. 0.2
 5.1 ** ** 163.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 36 Catnip Hill 0.29(1.25)1141.68 990.00 151.68
 65.73
 66 Keene 4 way 5.39(1.25)1141.23 905.00 236.23
 102.36
 79 James Lane E 4.26(1.25)1141.43 915.00 226.43
 98.12
 131 Drakes Ln EO 1.01(1.25)1088.32 935.00 153.32
 66.44
 157 KY1267 EOL 1.68(1.25)1088.28 840.00 248.28
 107.59
 173 Stirling Est 3.81(1.25)1141.50 850.00 291.50
 126.32
 182 End of Parke 3.22(1.25)1141.56 915.00 226.56
 98.18
 217 Bark Woods 3.22(1.25)1089.93 960.00 129.93
 56.30
 233 Hagin EOL 1.47(1.25)1088.20 940.00 148.20
 64.22

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)
322	148.72	96	47.28
173	126.32	15	47.79
53	125.76	O-AV-1	47.79
60	124.91	I-AV-1	47.79
133	120.62	16	49.52
318	120.60	192	49.65
323	120.56	TANK-A	50.39
276	116.89	TANK-C	50.72
279	116.28	137	51.99
178	115.08	200	51.99

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	25.44	248	0.00
3	6.80	227	0.00
9	3.82	391	0.00
303	3.17	225	0.00
418	3.02	213	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	3.82	248	0.00
38	3.82	227	0.00
418	3.02	391	0.00
11	2.71	225	0.00
3	2.50	213	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.85	73.60	16.85

RV-2	PRV-1	86.70	ACTIVATED	108.06	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	115.08	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	73.93	52.00	75.40

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
FGN-BB	2.43	
R-1	1145.00	KAWC Tank
TANK-B	-373.96	New Tank - P
TANK-C	-133.49	Chinkapin Ta

NET SYSTEM INFLOW = 1147.43
 NET SYSTEM OUTFLOW = -507.45
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 45.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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---	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
0.00	TANK-B(1)	373.96	1141.08	6.08	89284.	16.9	FILLING
6.46	TANK-C(1)	133.49	1142.06	9.06	260741.	23.8	FILLING
9.13							

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

=====
 Time: 45.250

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 = 45.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 45.250
Time: 45.500
Time: 45.750
Time: 46.000

CHANGES FOR NEXT SIMULATION (time = 46.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1131.000
Time: 46.000

TIME FROM INITIATION OF EPS = 46.0000 HOURS (10.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00027

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
3.21	11	4	7	-72.94	3.05	0.00	1.86
0.98	3.21						
2.16	12	7	10	-38.42	1.61	0.00	0.98
0.66	0.98						
0.41	15	10	12	-58.89	6.38	0.00	1.50
0.47	2.16						
0.25	18	15	333	-90.08	1.00	0.00	1.02
	0.66						
	20	16	15	69.83	0.25	0.00	0.79
	0.41						
	22	155	331	-25.90	0.54	0.00	0.66
	0.47						
	35	153	29	18.51	0.63	0.00	0.47
	0.25						

	36	29	195	6.34	0.03	0.00	0.16
0.03	0.03						
	76	65	277	18.06	0.64	0.00	0.46
0.24	0.24						
	77	65	82	17.76	0.63	0.00	0.45
0.23	0.23						
	79	82	83	4.02	0.02	0.00	0.10
0.01	0.01						
	80	67	97	2.90	0.01	0.00	0.07
0.01	0.01						
	86	76	77	17.25	0.22	0.00	0.44
0.22	0.22						
	87	75	77	7.26	0.10	0.00	0.19
0.04	0.04						
	92	70	76	22.19	0.99	0.00	0.57
0.35	0.35						
	94	97	70	46.56	2.45	0.00	1.19
1.40	1.40						
	96	68	90	27.00	0.41	0.00	0.69
0.51	0.51						
	108	67	68	35.63	2.30	0.00	0.91
0.85	0.85						
	124	90	185	29.07	0.91	0.00	0.74
0.76	0.76						
	134	128	260	17.42	1.21	0.02	0.44
0.35	0.34						
	185	16	122	45.59	0.40	0.00	0.52
0.19	0.19						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						
	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	17.80	0.70	0.00	0.45
0.24	0.24						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						
	296	333	2	-214.30	2.84	0.43	2.43
3.78	3.28						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	11.41	0.05	0.00	0.13
0.01	0.01						
	432	261	67	31.84	2.06	0.00	0.81
1.05	1.05						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE

5.9	**	**	173.4	140.34	183.25	42.9	56.94	13.	0.2
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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66.07	36	Catnip Hill	0.23	1142.47	990.00	152.47
103.44	66	Keene 4 way	4.31	1143.70	905.00	238.70
99.90	79	James Lane E	3.41	1145.53	915.00	230.53
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89
107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
128.08	173	Stirling Est	3.05	1145.58	850.00	295.58
99.93	182	End of Parke	2.58	1145.62	915.00	230.62
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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)
322	148.99	96	47.74
173	128.08	15	48.14
53	126.02	O-AV-1	48.14
60	125.17	I-AV-1	48.14
133	120.86	16	49.98
318	120.85	192	50.46
323	120.82	TANK-A	50.74
276	116.91	TANK-C	50.88
279	116.52	137	52.00
178	116.23	200	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	29.44	151	0.00
3	7.46	227	0.00
9	4.38	248	0.00
296	3.78	391	0.00
418	3.24	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	4.38	151	0.00
38	4.38	227	0.00
296	3.28	248	0.00
418	3.24	391	0.00
11	3.21	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	97.00	73.60	10.81

RV-2	PRV-1	86.70	ACTIVATED	108.88	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	116.23	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	74.62	52.00	57.71

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
FGN-BB	1.94	
R-1	1200.48	KAWC Tank
TANK-B	-392.15	New Tank - P
TANK-C	-298.29	Chinkapin Ta

NET SYSTEM INFLOW = 1202.42
 NET SYSTEM OUTFLOW = -690.44
 NET SYSTEM DEMAND = 511.98

T A N K S T A T U S R E P O R T (time = 46.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
----------------------------	----------------------	----------------------	----------------------------	-----------------------	-------------------------	-----------------------	----------------

---	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
0.00	TANK-B(1)	392.15	1142.45	7.45	109437.	20.7	FILLING
7.85	TANK-C(1)	298.29	1142.41	9.41	270884.	24.8	FILLING
9.56							

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

=====
 Time: 46.250

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 = 46.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 46.250
Time: 46.500
Time: 46.750
Time: 47.000

CHANGES FOR NEXT SIMULATION (time = 47.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
Time: 47.000

TIME FROM INITIATION OF EPS = 47.0000 HOURS (11.00PM, DAY: 2)

RESULTS OBTAINED AFTER 15 TRIALS: ACCURACY = 0.00011

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
3.94	11	4	7	-81.39	3.74	0.00	2.08
1.09	3.94						
2.34	12	7	10	-40.71	1.79	0.00	1.04
1.04	1.09						
1.68	15	10	12	-61.41	6.89	0.00	1.57
0.49	2.34						
0.02	18	15	333	-115.08	1.57	0.00	1.31
	1.04						
	20	16	15	149.39	1.01	0.00	1.69
	1.68						
	22	155	331	-26.30	0.56	0.00	0.67
	0.49						
	35	153	29	4.41	0.04	0.00	0.11
	0.02						

	36	29	195	1.43	0.00	0.00	0.04
0.00	0.00						
	76	65	277	4.97	0.06	0.00	0.13
0.02	0.02						
	77	65	82	4.92	0.06	0.00	0.13
0.02	0.02						
	79	82	83	1.18	0.00	0.00	0.03
0.00	0.00						
	80	67	97	-7.69	0.05	0.00	0.20
0.05	0.05						
	86	76	77	5.74	0.03	0.00	0.15
0.03	0.03						
	87	75	77	13.48	0.30	0.00	0.34
0.14	0.14						
	92	70	76	24.43	1.19	0.00	0.62
0.42	0.42						
	94	97	70	42.19	2.04	0.00	1.08
1.17	1.17						
	96	68	90	31.43	0.54	0.00	0.80
0.68	0.68						
	108	67	68	38.26	2.63	0.00	0.98
0.97	0.97						
	124	90	185	35.59	1.33	0.00	0.91
1.11	1.11						
	134	128	260	18.01	1.29	0.02	0.46
0.37	0.36						
	185	16	122	46.92	0.42	0.00	0.53
0.20	0.20						
	224	204	203	0.64	0.00	0.00	0.02
0.00	0.00						
	251	28	153	5.08	0.01	0.00	0.13
0.02	0.02						
	255	64	157	0.34	0.00	0.00	0.01
0.00	0.00						
	257	75	159	0.78	0.00	0.00	0.02
0.00	0.00						
	263	77	160	6.70	0.07	0.00	0.17
0.05	0.05						
	278	226	64	0.91	0.00	0.00	0.02
0.00	0.00						
	281	96	167	32.81	2.19	0.00	0.84
0.73	0.73						
	286	65	168	-5.05	0.04	0.00	0.13
0.03	0.03						
	296	333	2	-276.64	4.55	0.72	3.14
6.10	5.27						
	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	0.00						
	395	200	288	0.36	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-14.06	0.08	0.00	0.16
0.02	0.02						
	432	261	67	32.81	2.18	0.00	0.84
1.11	1.11						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1210.69 149.33 191.42 42.1 55.70 13. 0.2
 6.7 ** ** 182.3

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 66.76 36 Catnip Hill 0.06(0.25)1144.05 990.00 154.05
 106.38 66 Keene 4 way 1.08(0.25)1150.50 905.00 245.50
 103.90 79 James Lane E 0.85(0.25)1154.76 915.00 239.76
 67.14 131 Drakes Ln EO 0.20(0.25)1089.95 935.00 154.95
 108.31 157 KY1267 EOL 0.34(0.25)1089.95 840.00 249.95
 132.07 173 Stirling Est 0.76(0.25)1154.77 850.00 304.77
 103.90 182 End of Parke 0.64(0.25)1154.77 915.00 239.77
 56.35 217 Bark Woods 0.64(0.25)1090.04 960.00 130.04
 64.98 233 Hagin EOL 0.29(0.25)1089.94 940.00 149.94

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)
322	149.48	96	48.72
173	132.07	15	48.79
53	126.51	O-AV-1	48.79
60	125.64	I-AV-1	48.79
318	121.31	16	50.96
133	121.31	TANK-C	51.17
323	121.31	TANK-A	51.39
178	119.36	192	51.85
I-RV-R1	119.36	137	52.01
276	117.01	200	52.01

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	33.78	199	0.00
3	7.58	441	0.00
296	6.10	391	0.00
9	4.98	201	0.00
11	3.94	162	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.27	199	0.00
9	4.98	441	0.00
38	4.98	391	0.00
11	3.94	201	0.00
418	3.17	162	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	100.14	73.68	0.00

RV-2	PRV-1	86.70	ACTIVATED	110.49	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	119.36	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	75.97	52.01	0.00

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
FGN-BB	0.49	
R-1	1210.69	KAWC Tank
TANK-B	-587.42	New Tank - P
TANK-C	-495.76	Chinkapin Ta

NET SYSTEM INFLOW = 1211.18
 NET SYSTEM OUTFLOW = -1083.18
 NET SYSTEM DEMAND = 128.00

T A N K S T A T U S R E P O R T (time = 47.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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---	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
0.00	TANK-B(1)	587.42	1143.95	8.95	131472.	24.9	FILLING
9.55	TANK-C(1)	495.76	1143.08	10.08	290078.	26.5	FILLING
10.33							

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

=====
 Time: 47.250

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 = 47.2500
 hours)

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

	36	29	195	0.57	0.00	0.00	0.01
0.00	0.00						
	76	65	277	1.99	0.01	0.00	0.05
0.00	0.00						
	77	65	82	1.97	0.01	0.00	0.05
0.00	0.00						
	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-10.03	0.08	0.00	0.26
0.08	0.08						
	86	76	77	1.48	0.00	0.00	0.04
0.00	0.00						
	87	75	77	15.53	0.39	0.00	0.40
0.18	0.18						
	92	70	76	26.22	1.35	0.00	0.67
0.48	0.48						
	94	97	70	43.46	2.15	0.00	1.11
1.23	1.23						
	96	68	90	34.22	0.63	0.00	0.87
0.79	0.79						
	108	67	68	40.82	2.96	0.00	1.04
1.10	1.10						
	124	90	185	39.09	1.58	0.00	1.00
1.32	1.32						
	134	128	260	19.15	1.44	0.03	0.49
0.42	0.41						
	185	16	122	45.12	0.39	0.00	0.51
0.18	0.18						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	41.43	3.37	0.00	1.06
1.13	1.13						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-313.53	5.74	0.92	3.56
7.71	6.64						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-16.49	0.11	0.00	0.19
0.03	0.03						
	432	261	67	34.77	2.43	0.00	0.89
1.23	1.23						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE

Pump-1	1284.64	163.25	199.40	36.2	45.77	12.	0.2
7.6	**	**	196.2				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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67.50	36	Catnip Hill	0.02(0.10)	1145.77	990.00	155.77
108.26	66	Keene 4 way	0.43(0.10)	1154.83	905.00	249.83
106.08	79	James Lane E	0.34(0.10)	1159.80	915.00	244.80
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
134.25	173	Stirling Est	0.30(0.10)	1159.80	850.00	309.80
106.08	182	End of Parke	0.26(0.10)	1159.80	915.00	244.80
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	15	49.53
173	134.25	O-AV-1	49.53
53	126.56	I-AV-1	49.53
60	125.69	96	49.74
133	121.36	TANK-C	51.63
318	121.36	16	51.99
323	121.36	137	52.03
178	121.26	200	52.03
I-RV-R1	121.26	O-RV-R2	52.03
276	117.03	TANK-A	52.13

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	38.88	449	0.00
3	8.51	199	0.00
296	7.71	391	0.00
9	5.68	441	0.00
11	4.56	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	6.64	449	0.00
9	5.68	199	0.00
38	5.68	391	0.00
11	4.56	441	0.00
319	3.51	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	102.06	73.70	0.00

RV-2	PRV-1	86.70	ACTIVATED	111.68	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	121.26	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	77.05	52.03	0.00

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
FGN-BB	0.19	
R-1	1284.64	KAWC Tank
TANK-B	-631.78	New Tank - P
TANK-C	-601.86	Chinkapin Ta

NET SYSTEM INFLOW = 1284.83
 NET SYSTEM OUTFLOW = -1233.64
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 48.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
11.90	TANK-B(1)	631.78	1146.25	11.25	165254.	31.3	FILLING
11.46	TANK-C(1)	601.86	1144.15	11.15	320990.	29.3	FILLING

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

=====
 Time: 48.250

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 = 48.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 48.250
Time: 48.500
Time: 48.750
Time: 49.000

CHANGES FOR NEXT SIMULATION (time = 49.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
Time: 49.000

TIME FROM INITIATION OF EPS = 49.0000 HOURS (13.00PM, DAY: 2)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00012

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
-----	-----						
3.84	11	4	7	-80.35	3.65	0.00	2.05
	3.84						
1.05	12	7	10	-39.80	1.72	0.00	1.02
	1.05						
2.23	15	10	12	-59.86	6.57	0.00	1.53
	2.23						
1.16	18	15	333	-122.38	1.76	0.00	1.39
	1.16						
3.33	20	16	15	215.98	2.00	0.00	2.45
	3.33						
0.59	22	155	331	-29.34	0.69	0.00	0.75
	0.59						
0.00	35	153	29	1.76	0.01	0.00	0.04
	0.00						

	36	29	195	0.57	0.00	0.00	0.01
0.00	0.00						
	76	65	277	1.99	0.01	0.00	0.05
0.00	0.00						
	77	65	82	1.97	0.01	0.00	0.05
0.00	0.00						
	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-9.01	0.07	0.00	0.23
0.07	0.07						
	86	76	77	1.65	0.00	0.00	0.04
0.00	0.00						
	87	75	77	14.02	0.33	0.00	0.36
0.15	0.15						
	92	70	76	23.77	1.13	0.00	0.61
0.40	0.40						
	94	97	70	39.50	1.81	0.00	1.01
1.03	1.03						
	96	68	90	30.98	0.53	0.00	0.79
0.66	0.66						
	108	67	68	37.02	2.47	0.00	0.95
0.91	0.91						
	124	90	185	35.36	1.31	0.00	0.90
1.10	1.10						
	134	128	260	17.41	1.21	0.02	0.44
0.35	0.34						
	185	16	122	29.16	0.18	0.00	0.33
0.08	0.08						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	43.79	3.73	0.00	1.12
1.25	1.25						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-297.37	5.20	0.83	3.37
6.98	6.02						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-9.85	0.04	0.00	0.11
0.01	0.01						
	432	261	67	31.54	2.03	0.00	0.81
1.03	1.03						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1172.49 149.37 194.52 45.2 60.19 13. 0.2
 8.5 ** ** 182.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 68.15 36 Catnip Hill 0.02(0.10)1147.26 990.00 157.26
 108.54 66 Keene 4 way 0.43(0.10)1155.47 905.00 250.47
 106.01 79 James Lane E 0.34(0.10)1159.64 915.00 244.64
 67.19 131 Drakes Ln EO 0.08(0.10)1090.05 935.00 155.05
 108.36 157 KY1267 EOL 0.13(0.10)1090.05 840.00 250.05
 134.18 173 Stirling Est 0.30(0.10)1159.64 850.00 309.64
 106.01 182 End of Parke 0.26(0.10)1159.64 915.00 244.64
 56.36 217 Bark Woods 0.26(0.10)1090.07 960.00 130.07
 65.02 233 Hagin EOL 0.12(0.10)1090.05 940.00 150.05

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)
322	149.52	15	50.11
173	134.18	O-AV-1	50.11
53	126.56	I-AV-1	50.11
60	125.69	96	50.46
178	121.54	137	52.03
I-RV-R1	121.54	200	52.03
133	121.36	O-RV-R2	52.03
318	121.36	TANK-C	52.19
323	121.36	16	52.70
276	117.03	TANK-A	52.71

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	32.43	199	0.00
3	7.12	391	0.00
296	6.98	441	0.00
9	4.79	201	0.00
470	4.52	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	6.02	199	0.00
9	4.79	391	0.00
38	4.79	441	0.00
11	3.84	201	0.00
20	3.33	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	102.29	73.70	0.00

RV-2	PRV-1	86.70	ACTIVATED	112.42	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	121.54	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	77.79	52.03	0.00

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
FGN-BB	0.19	
R-1	1172.49	KAWC Tank
TANK-B	-509.97	New Tank - P
TANK-C	-611.51	Chinkapin Ta

NET SYSTEM INFLOW = 1172.68
 NET SYSTEM OUTFLOW = -1121.48
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 49.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
----------------------------	----------------------	----------------------	----------------------------	-----------------------	-------------------------	-----------------------	----------------

---	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
0.00	TANK-B(1)	509.97	1148.74	13.74	201849.	38.2	FILLING
14.26	TANK-C(1)	611.51	1145.44	12.44	358091.	32.7	FILLING
12.76							

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

=====
 Time: 49.250

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 = 49.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 49.250
Time: 49.500
Time: 49.750
Time: 50.000

CHANGES FOR NEXT SIMULATION (time = 50.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000
Time: 50.000

TIME FROM INITIATION OF EPS = 50.0000 HOURS (14.00PM, DAY: 2)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00018

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
4.57	11	4	7	-88.23	4.34	0.00	2.25
	4.57						
1.24	12	7	10	-43.68	2.04	0.00	1.12
	1.24						
2.64	15	10	12	-65.67	7.80	0.00	1.68
	2.64						
1.39	18	15	333	-134.67	2.11	0.00	1.53
	1.39						
4.04	20	16	15	239.77	2.42	0.00	2.72
	4.04						
0.71	22	155	331	-32.40	0.82	0.00	0.83
	0.71						
0.00	35	153	29	1.76	0.01	0.00	0.05
	0.00						

	36	29	195	0.57	0.00	0.00	0.01
0.00	0.00						
	76	65	277	1.99	0.01	0.00	0.05
0.00	0.00						
	77	65	82	1.97	0.01	0.00	0.05
0.00	0.00						
	79	82	83	0.47	0.00	0.00	0.01
0.00	0.00						
	80	67	97	-9.97	0.08	0.00	0.25
0.08	0.08						
	86	76	77	1.50	0.00	0.00	0.04
0.00	0.00						
	87	75	77	15.45	0.39	0.00	0.39
0.18	0.18						
	92	70	76	26.08	1.34	0.00	0.67
0.48	0.48						
	94	97	70	43.24	2.13	0.00	1.10
1.22	1.22						
	96	68	90	34.03	0.63	0.00	0.87
0.78	0.78						
	108	67	68	40.60	2.93	0.00	1.04
1.09	1.09						
	124	90	185	38.87	1.57	0.00	0.99
1.31	1.31						
	134	128	260	19.09	1.43	0.03	0.49
0.41	0.41						
	185	16	122	31.48	0.20	0.00	0.36
0.09	0.09						
	224	204	203	0.26	0.00	0.00	0.01
0.00	0.00						
	251	28	153	2.03	0.00	0.00	0.05
0.00	0.00						
	255	64	157	0.13	0.00	0.00	0.00
0.00	0.00						
	257	75	159	0.31	0.00	0.00	0.01
0.00	0.00						
	263	77	160	2.68	0.01	0.00	0.07
0.01	0.01						
	278	226	64	0.37	0.00	0.00	0.01
0.00	0.00						
	281	96	167	48.52	4.51	0.00	1.24
1.51	1.51						
	286	65	168	-2.02	0.01	0.00	0.05
0.01	0.01						
	296	333	2	-327.37	6.22	1.01	3.71
8.36	7.19						
	336-XX	331	115				
	382	277	204	0.58	0.00	0.00	0.01
0.00	0.00						
	395	200	288	0.23	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-10.81	0.05	0.00	0.12
0.01	0.01						
	432	261	67	34.59	2.40	0.00	0.88
1.22	1.22						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	NPSH Avail. (ft)	INLET HEAD (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
 9.3 Pump-1 1285.62 167.25 203.32 36.1 45.63 12. 0.2
 ** ** 200.2

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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68.88	36	Catnip Hill	0.02(0.10)	1148.94	990.00	158.94
109.99	66	Keene 4 way	0.43(0.10)	1158.81	905.00	253.81
107.80	79	James Lane E	0.34(0.10)	1163.77	915.00	248.77
67.19	131	Drakes Ln EO	0.08(0.10)	1090.05	935.00	155.05
108.36	157	KY1267 EOL	0.13(0.10)	1090.05	840.00	250.05
135.97	173	Stirling Est	0.30(0.10)	1163.77	850.00	313.77
107.80	182	End of Parke	0.26(0.10)	1163.77	915.00	248.77
56.36	217	Bark Woods	0.26(0.10)	1090.07	960.00	130.07
65.02	233	Hagin EOL	0.12(0.10)	1090.05	940.00	150.05

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)
322	149.52	15	50.86
173	135.97	O-AV-1	50.86
53	126.56	I-AV-1	50.86
60	125.69	96	51.39
178	122.99	137	52.03
I-RV-R1	122.99	200	52.03
133	121.36	O-RV-R2	52.03
318	121.36	TANK-C	52.75
323	121.36	TANK-A	53.46
276	117.03	16	53.65

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	38.94	199	0.00
3	8.52	441	0.00
296	8.36	391	0.00
9	5.69	201	0.00
470	5.51	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	7.19	199	0.00
9	5.69	441	0.00
38	5.69	391	0.00
11	4.57	201	0.00
20	4.04	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.78	73.70	0.00

RV-2	PRV-1	86.70	ACTIVATED	113.35	86.70	10.20
RV-R1	PRV-1	93.20	ACTIVATED	122.99	93.20	5.25
RV-R2	PRV-1	52.00	CLOSED	78.72	52.03	0.00

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
FGN-BB	0.19	
R-1	1285.62	KAWC Tank
TANK-B	-558.56	New Tank - P
TANK-C	-676.06	Chinkapin Ta

NET SYSTEM INFLOW = 1285.82
 NET SYSTEM OUTFLOW = -1234.62
 NET SYSTEM DEMAND = 51.20

T A N K S T A T U S R E P O R T (time = 50.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.33	TANK-B(1)	558.56	1150.76	15.76	231526.	43.8	FILLING
14.09	TANK-C(1)	676.06	1146.73	13.73	395412.	36.1	FILLING

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

=====
 Time: 50.250

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 = 50.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 50.250
Time: 50.500
Time: 50.750
Time: 51.000

CHANGES FOR NEXT SIMULATION (time = 51.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 51.000

TIME FROM INITIATION OF EPS = 51.0000 HOURS (15.00PM, DAY: 2)

RESULTS OBTAINED AFTER 16 TRIALS: ACCURACY = 0.00014

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
4.00	11	4	7	-82.09	3.80	0.00	2.10
	4.00						
1.11	12	7	10	-41.03	1.82	0.00	1.05
	1.11						
2.37	15	10	12	-61.88	6.99	0.00	1.58
	2.37						
1.24	18	15	333	-126.62	1.88	0.00	1.44
	1.24						
4.36	20	16	15	249.77	2.61	0.00	2.83
	4.36						
0.60	22	155	331	-29.44	0.69	0.00	0.75
	0.60						
0.02	35	153	29	4.41	0.04	0.00	0.11
	0.02						

	36	29	195	1.43	0.00	0.00	0.04
0.00	0.00						
	76	65	277	4.97	0.06	0.00	0.13
0.02	0.02						
	77	65	82	4.92	0.06	0.00	0.13
0.02	0.02						
	79	82	83	1.18	0.00	0.00	0.03
0.00	0.00						
	80	67	97	-7.63	0.05	0.00	0.19
0.05	0.05						
	86	76	77	5.78	0.03	0.00	0.15
0.03	0.03						
	87	75	77	13.39	0.30	0.00	0.34
0.14	0.14						
	92	70	76	24.27	1.17	0.00	0.62
0.42	0.42						
	94	97	70	41.94	2.02	0.00	1.07
1.15	1.15						
	96	68	90	31.20	0.53	0.00	0.80
0.67	0.67						
	108	67	68	38.00	2.59	0.00	0.97
0.96	0.96						
	124	90	185	35.31	1.31	0.00	0.90
1.09	1.09						
	134	128	260	17.99	1.29	0.02	0.46
0.37	0.36						
	185	16	122	14.73	0.05	0.00	0.17
0.02	0.02						
	224	204	203	0.64	0.00	0.00	0.02
0.00	0.00						
	251	28	153	5.08	0.01	0.00	0.13
0.02	0.02						
	255	64	157	0.34	0.00	0.00	0.01
0.00	0.00						
	257	75	159	0.78	0.00	0.00	0.02
0.00	0.00						
	263	77	160	6.70	0.07	0.00	0.17
0.05	0.05						
	278	226	64	0.91	0.00	0.00	0.02
0.00	0.00						
	281	96	167	49.21	4.63	0.00	1.26
1.55	1.55						
	286	65	168	-5.05	0.04	0.00	0.13
0.03	0.03						
	296	333	2	-309.28	5.60	0.90	3.51
7.51	6.47						
	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	0.00						
	395	200	288	0.36	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-2.00	0.00	0.00	0.02
0.00	0.00						
	432	261	67	32.59	2.15	0.00	0.83
1.09	1.09						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1219.53 158.32 199.70 41.4 54.60 13. 0.2
 10.3 ** ** 191.3

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 36 Catnip Hill 0.06(0.25)1150.38 990.00 160.38
 69.50
 66 Keene 4 way 1.08(0.25)1158.60 905.00 253.60
 109.89
 79 James Lane E 0.85(0.25)1162.88 915.00 247.88
 107.41
 131 Drakes Ln EO 0.20(0.25)1089.95 935.00 154.95
 67.14
 157 KY1267 EOL 0.34(0.25)1089.95 840.00 249.95
 108.31
 173 Stirling Est 0.76(0.25)1162.88 850.00 312.88
 135.58
 182 End of Parke 0.64(0.25)1162.89 915.00 247.89
 107.42
 217 Bark Woods 0.64(0.25)1090.04 960.00 130.04
 56.35
 233 Hagin EOL 0.29(0.25)1089.94 940.00 149.94
 64.98

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)
322	149.48	15	51.46
173	135.58	O-AV-1	51.46
53	126.51	I-AV-1	51.46
60	125.64	137	52.01
178	122.87	200	52.01
I-RV-R1	122.87	O-RV-R2	52.01
318	121.31	96	52.05
133	121.31	TANK-C	53.37
323	121.31	TANK-A	54.06
276	117.01	16	54.32

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	34.27	199	0.00
3	7.69	441	0.00
296	7.51	391	0.00
470	5.38	201	0.00
9	5.05	162	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	6.47	199	0.00
9	5.05	441	0.00
38	5.05	391	0.00
20	4.36	201	0.00
11	4.00	162	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.65	73.68	0.00

RV-2	PRV-1	86.70	ACTIVATED	113.88	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	122.87	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	79.36	52.01	0.00

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
FGN-BB	0.49	
R-1	1219.53	KAWC Tank
TANK-B	-424.21	New Tank - P
TANK-C	-667.81	Chinkapin Ta

NET SYSTEM INFLOW = 1220.01
 NET SYSTEM OUTFLOW = -1092.02
 NET SYSTEM DEMAND = 128.00

T A N K S T A T U S R E P O R T (time = 51.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
18.41	TANK-B(1)	424.21	1152.98	17.98	264109.	49.9	FILLING
15.51	TANK-C(1)	667.81	1148.16	15.16	436598.	39.9	FILLING

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

=====
 Time: 51.250

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 = 51.2500
 hours)

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

	36	29	195	3.20	0.01	0.00	0.08
0.01	0.01						
	76	65	277	8.93	0.17	0.00	0.23
0.07	0.07						
	77	65	82	8.78	0.17	0.00	0.22
0.06	0.06						
	79	82	83	1.97	0.01	0.00	0.05
0.00	0.00						
	80	67	97	-3.93	0.01	0.00	0.10
0.01	0.01						
	86	76	77	10.78	0.09	0.00	0.28
0.09	0.09						
	87	75	77	10.87	0.20	0.00	0.28
0.09	0.09						
	92	70	76	22.61	1.03	0.00	0.58
0.37	0.37						
	94	97	70	42.03	2.03	0.00	1.07
1.16	1.16						
	96	68	90	28.39	0.45	0.00	0.72
0.56	0.56						
	108	67	68	35.72	2.31	0.00	0.91
0.86	0.86						
	124	90	185	31.60	1.07	0.00	0.81
0.89	0.89						
	134	128	260	17.14	1.17	0.02	0.44
0.34	0.33						
	185	16	122	-4.75	0.01	0.00	0.05
0.00	0.00						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	48.82	4.56	0.00	1.25
1.53	1.53						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						
	296	333	2	-287.57	4.89	0.78	3.26
6.56	5.66						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	8.71	0.03	0.00	0.10
0.01	0.01						
	432	261	67	31.05	1.97	0.00	0.79
1.00	1.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1173.08 151.37 196.47 45.1 60.12 13. 0.2
 11.2 ** ** 184.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 70.03 36 Catnip Hill 0.12(0.50)1151.60 990.00 161.60
 109.57 66 Keene 4 way 2.16(0.50)1157.85 905.00 252.85
 106.70 79 James Lane E 1.71(0.50)1161.23 915.00 246.23
 67.04 131 Drakes Ln EO 0.40(0.50)1089.70 935.00 154.70
 108.20 157 KY1267 EOL 0.67(0.50)1089.69 840.00 249.69
 134.87 173 Stirling Est 1.52(0.50)1161.24 850.00 311.24
 106.71 182 End of Parke 1.29(0.50)1161.25 915.00 246.25
 56.34 217 Bark Woods 1.29(0.50)1090.02 960.00 130.02
 64.86 233 Hagin EOL 0.59(0.50)1089.68 940.00 149.68

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)
322	149.36	137	52.00
173	134.87	200	52.00
53	126.40	O-RV-R2	52.00
60	125.53	15	52.00
178	122.48	O-AV-1	52.00
I-RV-R1	122.48	I-AV-1	52.00
133	121.21	96	52.62
318	121.20	TANK-C	53.98
323	121.20	TANK-A	54.60
276	116.97	16	54.91

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	30.45	227	0.00
3	7.13	199	0.00
296	6.56	391	0.00
470	5.04	225	0.00
9	4.52	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	5.66	227	0.00
9	4.52	199	0.00
38	4.52	391	0.00
20	4.51	225	0.00
11	3.49	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	103.28	73.64	0.00

RV-2	PRV-1	86.70	ACTIVATED	114.24	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	122.48	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	79.80	52.00	19.60

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
FGN-BB	0.97	
R-1	1173.08	KAWC Tank
TANK-B	-272.04	New Tank - P
TANK-C	-646.02	Chinkapin Ta

NET SYSTEM INFLOW = 1174.05
 NET SYSTEM OUTFLOW = -918.06
 NET SYSTEM DEMAND = 255.99

T A N K S T A T U S R E P O R T (time = 52.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
19.96	TANK-B(1)	272.04	1154.68	19.68	289054.	54.7	FILLING
16.90	TANK-C(1)	646.02	1149.57	16.57	476913.	43.6	FILLING

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

=====
 Time: 52.250

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 = 52.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 52.250
Time: 52.500
Time: 52.750
Time: 53.000

CHANGES FOR NEXT SIMULATION (time = 53.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1133.000
Time: 53.000

TIME FROM INITIATION OF EPS = 53.0000 HOURS (17.00PM, DAY: 2)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00020

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
(ft/ft)	(ft/ft)						
2.69	11	4	7	-66.24	2.55	0.00	1.69
0.86	2.69						
1.91	12	7	10	-35.70	1.40	0.00	0.91
0.74	0.86						
3.66	15	10	12	-55.08	5.63	0.00	1.41
0.38	1.91						
	18	15	333	-95.82	1.12	0.00	1.09
	0.74						
	20	16	15	227.44	2.20	0.00	2.58
	3.66						
	22	155	331	-34.09	0.91	0.00	0.87
	0.79						
	35	153	29	23.07	0.95	0.00	0.59
	0.38						

	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	6.38	0.04	0.00	0.16
0.04	0.04						
	86	76	77	21.80	0.34	0.00	0.56
0.34	0.34						
	87	75	77	3.83	0.03	0.00	0.10
0.01	0.01						
	92	70	76	18.81	0.73	0.00	0.48
0.26	0.26						
	94	97	70	44.03	2.21	0.00	1.12
1.26	1.26						
	96	68	90	23.29	0.31	0.00	0.59
0.39	0.39						
	108	67	68	31.59	1.84	0.00	0.81
0.68	0.68						
	124	90	185	24.51	0.67	0.00	0.63
0.56	0.56						
	134	128	260	15.93	1.03	0.02	0.41
0.30	0.29						
	185	16	122	-30.79	0.19	0.00	0.35
0.09	0.09						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	41.84	3.43	0.00	1.07
1.15	1.15						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	-236.50	3.40	0.53	2.68
4.55	3.94						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	35.67	0.45	0.00	0.40
0.12	0.12						
	432	261	67	28.72	1.70	0.00	0.73
0.86	0.86						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1138.54 142.40 190.28 47.9 63.81 14. 0.2
 12.0 ** ** 175.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

 --
 36 Catnip Hill 0.29(1.25)1151.89 990.00 161.89
 70.15
 66 Keene 4 way 5.39(1.25)1154.26 905.00 249.26
 108.01
 79 James Lane E 4.26(1.25)1154.66 915.00 239.66
 103.85
 131 Drakes Ln EO 1.01(1.25)1088.32 935.00 153.32
 66.44
 157 KY1267 EOL 1.68(1.25)1088.28 840.00 248.28
 107.59
 173 Stirling Est 3.81(1.25)1154.72 850.00 304.72
 132.05
 182 End of Parke 3.22(1.25)1154.78 915.00 239.78
 103.91
 217 Bark Woods 3.22(1.25)1089.93 960.00 129.93
 56.30
 233 Hagin EOL 1.47(1.25)1088.20 940.00 148.20
 64.22

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)
322	148.72	137	51.99
173	132.05	200	51.99
53	125.76	O-RV-R2	52.00
60	124.91	15	52.31
178	120.73	O-AV-1	52.31
I-RV-R1	120.73	I-AV-1	52.31
133	120.62	96	52.67
318	120.60	TANK-C	54.56
323	120.56	TANK-A	54.91
276	116.89	16	54.99

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	25.12	248	0.00
3	6.73	227	0.00
296	4.55	391	0.00
9	3.77	147	0.00
20	3.66	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
296	3.94	248	0.00
9	3.77	227	0.00
38	3.77	391	0.00
20	3.66	147	0.00
418	2.99	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	101.50	73.60	16.85

RV-2	PRV-1	86.70	ACTIVATED	113.43	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	120.73	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	79.32	52.00	75.40

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
FGN-BB	2.43	
R-1	1138.54	KAWC Tank
TANK-B	34.49	New Tank - P
TANK-C	-535.48	Chinkapin Ta

NET SYSTEM INFLOW = 1175.45
 NET SYSTEM OUTFLOW = -535.48
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 53.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
---	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
0.00	TANK-B(1)	-34.49	1155.80	20.80	305470.	57.8	DRAINING
20.76	TANK-C(1)	535.48	1150.90	17.90	515390.	47.1	FILLING
18.18							

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

=====
 Time: 53.250

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 = 53.2500 hours)

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

	36	29	195	12.55	0.12	0.00	0.32
0.12	0.12						
	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	17.07	0.22	0.00	0.44
0.22	0.22						
	86	76	77	36.21	0.88	0.00	0.92
0.88	0.88						
	87	75	77	-1.85	0.01	0.00	0.05
0.00	0.00						
	92	70	76	15.01	0.48	0.00	0.38
0.17	0.17						
	94	97	70	47.38	2.53	0.00	1.21
1.44	1.44						
	96	68	90	17.76	0.19	0.00	0.45
0.23	0.23						
	108	67	68	26.20	1.30	0.00	0.67
0.48	0.48						
	124	90	185	15.53	0.29	0.00	0.40
0.24	0.24						
	134	128	260	14.50	0.86	0.02	0.37
0.25	0.24						
	185	16	122	-32.92	0.22	0.00	0.37
0.10	0.10						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	29.18	1.76	0.00	0.75
0.59	0.59						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	-181.86	2.09	0.31	2.06
2.78	2.42						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	52.77	0.93	0.00	0.60
0.24	0.24						
	432	261	67	25.33	1.35	0.00	0.65
0.68	0.68						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1114.00 135.43 185.27 49.8 66.21 14. 0.2
 12.8 ** ** 168.5

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.21	36	Catnip Hill	0.47(2.00)	1152.02	990.00	162.02
106.48	66	Keene 4 way	8.63(2.00)	1150.72	905.00	245.72
100.53	79	James Lane E	6.82(2.00)	1146.98	915.00	231.98
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
128.76	173	Stirling Est	6.10(2.00)	1147.14	850.00	297.14
100.66	182	End of Parke	5.16(2.00)	1147.28	915.00	232.28
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	137	51.98
173	128.76	200	51.98
53	124.68	O-RV-R2	52.00
60	123.85	96	52.35
133	119.62	15	52.47
318	119.58	I-AV-1	52.48
323	119.47	O-AV-1	52.51
178	118.88	16	54.71
I-RV-R1	118.88	TANK-C	55.02
276	116.78	TANK-A	55.11

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	20.68	248	0.00
303	6.70	120	0.00
3	6.45	213	0.00
304	4.04	123	0.00
9	3.15	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	248	0.00
38	3.15	120	0.00
9	3.15	213	0.00
418	2.99	123	0.00
296	2.42	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.78	73.60	32.85

RV-2	PRV-1	86.70	ACTIVATED	111.70	86.70	83.84
RV-R1	PRV-1	93.20	ACTIVATED	118.88	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	78.14	52.00	126.90

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
FGN-BB	3.89	
R-1	1114.00	KAWC Tank
TANK-A	24.88	Old Tank
TANK-B	258.40	New Tank - P
TANK-C	-377.20	Chinkapin Ta

NET SYSTEM INFLOW = 1401.16
 NET SYSTEM OUTFLOW = -377.20
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 54.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.07	TANK-A(1)	-24.88	1153.18	0.18	603.	1.1	DRAINING
20.46	TANK-B(1)	-258.40	1155.73	20.73	304449.	57.6	DRAINING
19.16	TANK-C(1)	377.20	1151.96	18.96	545835.	49.9	FILLING

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

=====
 ===
 Time: 54.250

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 = 54.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 54.250
Time: 54.500
Time: 54.750
Time: 55.000

CHANGES FOR NEXT SIMULATION (time = 55.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1137.000
Time: 55.000

TIME FROM INITIATION OF EPS = 55.0000 HOURS (19.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00027

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

2.60	11	4	7	-65.04	2.47	0.00	1.66
0.88	12	7	10	-36.33	1.45	0.00	0.93
2.01	15	10	12	-56.60	5.93	0.00	1.45
0.53	18	15	333	-79.66	0.80	0.00	0.90
1.53	20	16	15	141.71	0.92	0.00	1.61
0.62	22	155	331	-30.00	0.71	0.00	0.77
0.71	35	153	29	32.23	1.77	0.00	0.82

	36	29	195	10.99	0.10	0.00	0.28
0.10	0.10						
	76	65	277	31.95	1.83	0.00	0.82
0.70	0.70						
	77	65	82	31.44	1.80	0.00	0.80
0.68	0.68						
	79	82	83	7.16	0.07	0.00	0.18
0.04	0.04						
	80	67	97	11.99	0.12	0.00	0.31
0.11	0.11						
	86	76	77	31.07	0.66	0.00	0.79
0.66	0.66						
	87	75	77	0.67	0.00	0.00	0.02
0.00	0.00						
	92	70	76	17.91	0.67	0.00	0.46
0.24	0.24						
	94	97	70	48.52	2.64	0.00	1.24
1.51	1.51						
	96	68	90	22.33	0.29	0.00	0.57
0.36	0.36						
	108	67	68	31.48	1.83	0.00	0.80
0.68	0.68						
	124	90	185	22.35	0.56	0.00	0.57
0.47	0.47						
	134	128	260	16.35	1.08	0.02	0.42
0.31	0.30						
	185	16	122	-11.37	0.03	0.00	0.13
0.01	0.01						
	224	204	203	3.76	0.02	0.00	0.10
0.01	0.01						
	251	28	153	36.92	0.27	0.02	0.94
0.96	0.91						
	255	64	157	2.35	0.02	0.00	0.06
0.01	0.01						
	257	75	159	5.44	0.02	0.00	0.14
0.03	0.03						
	263	77	160	46.90	2.59	0.04	1.20
1.88	1.85						
	278	226	64	4.41	0.02	0.00	0.11
0.02	0.02						
	281	96	167	24.50	1.27	0.00	0.63
0.43	0.43						
	286	65	168	-26.47	0.77	0.01	0.68
0.65	0.64						
	296	333	2	-191.56	2.30	0.34	2.17
3.07	2.67						
	336-XX	331	115				
	382	277	204	9.20	0.11	0.00	0.23
0.07	0.07						
	395	200	288	9.03	0.26	0.01	0.23
0.07	0.07						
	396	122	332	43.47	0.65	0.00	0.49
0.17	0.17						
	432	261	67	29.35	1.77	0.00	0.75
0.90	0.90						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1194.81 146.35 189.71 43.4 57.62 13. 0.2
 13.6 ** ** 179.4

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.48	36	Catnip Hill	0.41(1.75)	1152.64	990.00	162.64
106.95	66	Keene 4 way	7.55(1.75)	1151.80	905.00	246.80
101.66	79	James Lane E	5.97(1.75)	1149.61	915.00	234.61
65.80	131	Drakes Ln EO	1.41(1.75)	1086.85	935.00	151.85
106.94	157	KY1267 EOL	2.35(1.75)	1086.80	840.00	246.80
129.88	173	Stirling Est	5.33(1.75)	1149.73	850.00	299.73
101.77	182	End of Parke	4.51(1.75)	1149.85	915.00	234.85
56.26	217	Bark Woods	4.51(1.75)	1089.83	960.00	129.83
63.54	233	Hagin EOL	2.05(1.75)	1086.64	940.00	146.64

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)
322	148.04	137	51.99
173	129.88	200	51.99
53	125.08	O-RV-R2	52.00
60	124.25	96	52.41
133	119.99	O-AV-1	52.53
318	119.96	I-AV-1	52.59
323	119.88	15	52.59
178	119.47	16	54.72
I-RV-R1	119.47	TANK-A	55.12
276	116.82	192	55.15

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	25.56	248	0.00
3	7.39	213	0.00
303	5.35	227	0.00
9	3.83	391	0.00
418	3.34	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	3.83	248	0.00
38	3.83	213	0.00
418	3.34	227	0.00
303	2.77	391	0.00
3	2.71	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.33	73.60	27.71

RV-2	PRV-1	86.70	ACTIVATED	112.32	86.70	74.55
RV-R1	PRV-1	93.20	ACTIVATED	119.47	93.20	58.34
RV-R2	PRV-1	52.00	ACTIVATED	78.55	52.00	109.91

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
FGN-BB	3.40	
R-1	1194.81	KAWC Tank
TANK-A	-35.22	Old Tank
TANK-B	35.07	New Tank - P
TANK-C	-302.09	Chinkapin Ta

NET SYSTEM INFLOW = 1233.28
 NET SYSTEM OUTFLOW = -337.31
 NET SYSTEM DEMAND = 895.97

T A N K S T A T U S R E P O R T (time = 55.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.36	TANK-A(1)	35.22	1153.20	0.20	692.	1.3	FILLING
19.77	TANK-B(1)	-35.07	1154.81	19.81	290976.	55.0	DRAINING
19.78	TANK-C(1)	302.09	1152.62	19.62	564972.	51.6	FILLING

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

=====
 Time: 55.250

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 = 55.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 55.250
Time: 55.500
Time: 55.750
Time: 56.000

CHANGES FOR NEXT SIMULATION (time = 56.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 56.000

TIME FROM INITIATION OF EPS = 56.0000 HOURS (20.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00031

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
				(gpm)	(ft)	(ft)	(ft/s)
1000	1000						
3.43	11	4	7	-75.56	3.26	0.00	1.93
1.05	12	7	10	-39.95	1.73	0.00	1.02
2.33	15	10	12	-61.30	6.87	0.00	1.56
0.78	18	15	333	-98.62	1.18	0.00	1.12
1.46	20	16	15	138.35	0.88	0.00	1.57
0.65	22	155	331	-30.84	0.75	0.00	0.79
0.30	35	153	29	20.33	0.75	0.00	0.52

	36	29	195	6.96	0.04	0.00	0.18
0.04	0.04						
	76	65	277	19.93	0.76	0.00	0.51
0.29	0.29						
	77	65	82	19.60	0.75	0.00	0.50
0.28	0.28						
	79	82	83	4.45	0.03	0.00	0.11
0.02	0.02						
	80	67	97	3.86	0.01	0.00	0.10
0.01	0.01						
	86	76	77	18.95	0.26	0.00	0.48
0.26	0.26						
	87	75	77	6.95	0.09	0.00	0.18
0.04	0.04						
	92	70	76	22.69	1.03	0.00	0.58
0.37	0.37						
	94	97	70	48.46	2.64	0.00	1.24
1.51	1.51						
	96	68	90	27.58	0.42	0.00	0.70
0.53	0.53						
	108	67	68	36.61	2.42	0.00	0.93
0.90	0.90						
	124	90	185	29.56	0.94	0.00	0.75
0.79	0.79						
	134	128	260	18.02	1.29	0.02	0.46
0.37	0.36						
	185	16	122	23.87	0.12	0.00	0.27
0.06	0.06						
	224	204	203	2.33	0.01	0.00	0.06
0.01	0.01						
	251	28	153	23.28	0.12	0.01	0.59
0.41	0.39						
	255	64	157	1.47	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.42	0.01	0.00	0.09
0.01	0.01						
	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.66	0.01	0.00	0.07
0.01	0.01						
	281	96	167	26.29	1.45	0.00	0.67
0.49	0.49						
	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						
	296	333	2	-235.08	3.37	0.52	2.67
4.50	3.90						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	21.35	0.17	0.00	0.24
0.05	0.05						
	432	261	67	32.83	2.18	0.00	0.84
1.11	1.11						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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 Device Pump-1 IS OPERATING OUT OF RANGE
 Pump-1 1252.31 158.29 197.03 38.7 50.31 12. 0.2
 14.4 ** ** 191.3

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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 --
 36 Catnip Hill 0.26(1.10)1153.50 990.00 163.50
 70.85
 66 Keene 4 way 4.75(1.10)1155.30 905.00 250.30
 108.46
 79 James Lane E 3.75(1.10)1157.01 915.00 242.01
 104.87
 131 Drakes Ln EO 0.88(1.10)1088.67 935.00 153.67
 66.59
 157 KY1267 EOL 1.47(1.10)1088.65 840.00 248.65
 107.75
 173 Stirling Est 3.35(1.10)1157.06 850.00 307.06
 133.06
 182 End of Parke 2.84(1.10)1157.11 915.00 242.11
 104.91
 217 Bark Woods 2.84(1.10)1089.96 960.00 129.96
 56.31
 233 Hagin EOL 1.29(1.10)1088.58 940.00 148.58
 64.39

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)
322	148.89	137	52.00
173	133.06	200	52.00
53	125.92	O-RV-R2	52.00
60	125.07	96	52.76
178	121.23	O-AV-1	52.77
I-RV-R1	121.23	I-AV-1	52.91
133	120.77	15	52.91
318	120.75	16	55.02
323	120.72	TANK-A	55.36
276	116.90	TANK-C	55.56

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	31.71	151	0.00
3	8.10	227	0.00
9	4.69	248	0.00
296	4.50	391	0.00
418	3.52	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	4.69	151	0.00
38	4.69	227	0.00
296	3.90	248	0.00
418	3.52	391	0.00
11	3.43	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	102.00	73.60	13.31

RV-2	PRV-1	86.70	ACTIVATED	113.80	86.70	51.42
RV-R1	PRV-1	93.20	ACTIVATED	121.23	93.20	40.47
RV-R2	PRV-1	52.00	ACTIVATED	79.59	52.00	64.84

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
FGN-BB	2.14	
R-1	1252.31	KAWC Tank
TANK-A	-50.81	Old Tank
TANK-B	-280.88	New Tank - P
TANK-C	-359.57	Chinkapin Ta

NET SYSTEM INFLOW = 1254.44
 NET SYSTEM OUTFLOW = -691.26
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 56.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
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0.98	TANK-A(1)	50.81	1153.75	0.75	2542.	4.6	FILLING
20.03	TANK-B(1)	280.88	1154.75	19.75	290036.	54.8	FILLING
20.41	TANK-C(1)	359.57	1153.22	20.22	582172.	53.2	FILLING

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

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 Time: 56.250

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 = 56.2500
 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 56.250
Time: 56.500
Time: 56.750
Time: 57.000

CHANGES FOR NEXT SIMULATION (time = 57.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1163.000
Time: 57.000

TIME FROM INITIATION OF EPS = 57.0000 HOURS (21.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00061

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

11	4	7	-84.19	3.98	0.00	2.15
4.19 4.19						
12	7	10	-43.33	2.01	0.00	1.11
1.22 1.22						
15	10	12	-65.96	7.87	0.00	1.68
2.67 2.67						
18	15	333	-116.51	1.61	0.00	1.32
1.06 1.06						
20	16	15	170.76	1.29	0.00	1.94
2.15 2.15						
22	155	331	-27.64	0.61	0.00	0.71
0.53 0.53						
35	153	29	13.99	0.38	0.00	0.36
0.15 0.15						

	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.94	0.01	0.00	0.08
0.01	0.01						
	80	67	97	-1.85	0.00	0.00	0.05
0.00	0.00						
	86	76	77	14.65	0.16	0.00	0.37
0.16	0.16						
	87	75	77	10.96	0.21	0.00	0.28
0.10	0.10						
	92	70	76	25.39	1.27	0.00	0.65
0.46	0.46						
	94	97	70	49.19	2.71	0.00	1.26
1.55	1.55						
	96	68	90	31.44	0.54	0.00	0.80
0.68	0.68						
	108	67	68	40.24	2.88	0.00	1.03
1.07	1.07						
	124	90	185	34.61	1.26	0.00	0.88
1.05	1.05						
	134	128	260	19.38	1.47	0.03	0.49
0.43	0.42						
	185	16	122	33.12	0.22	0.00	0.38
0.10	0.10						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	32.64	2.16	0.00	0.83
0.72	0.72						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-277.81	4.59	0.73	3.15
6.15	5.31						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	6.72	0.02	0.00	0.08
0.01	0.01						
	432	261	67	35.31	2.50	0.00	0.90
1.27	1.27						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS PARALLEL	#PUMPS SERIES	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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Device	Pump-1	IS OPERATING OUT OF RANGE						
15.3	**	**	205.2	172.21	205.12	32.9	39.66	11. 0.2

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

--	36	Catnip Hill	0.18(0.75)	1154.73	990.00	164.73
71.38	66	Keene 4 way	3.24(0.75)	1159.15	905.00	254.15
110.13	79	James Lane E	2.56(0.75)	1162.84	915.00	247.84
107.40	131	Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35
66.88	157	KY1267 EOL	1.00(0.75)	1089.33	840.00	249.33
108.04	173	Stirling Est	2.29(0.75)	1162.87	850.00	312.87
135.58	182	End of Parke	1.93(0.75)	1162.89	915.00	247.89
107.42	217	Bark Woods	1.93(0.75)	1090.00	960.00	130.00
56.33	233	Hagin EOL	0.88(0.75)	1089.30	940.00	149.30
64.70						

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)
322	149.20	137	52.00
173	135.58	200	52.00
53	126.23	O-RV-R2	52.00
60	125.37	O-AV-1	53.16
178	122.98	I-AV-1	53.39
I-RV-R1	122.98	15	53.39
133	121.05	96	53.43
318	121.05	16	55.69
323	121.03	TANK-A	55.74
276	116.93	TANK-C	55.90

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	37.70	227	0.00
3	9.04	225	0.00
296	6.15	391	0.00
9	5.52	201	0.00
11	4.19	248	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
9	5.52	227	0.00
38	5.52	225	0.00
296	5.31	391	0.00
11	4.19	201	0.00
418	3.83	248	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	103.83	73.60	3.61

RV-2	PRV-1	86.70	ACTIVATED	114.83	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	122.98	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	80.47	52.00	39.53

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
FGN-BB	1.46	
R-1	1324.99	KAWC Tank
TANK-A	-65.63	Old Tank
TANK-B	-433.17	New Tank - P
TANK-C	-443.65	Chinkapin Ta

NET SYSTEM INFLOW = 1326.44
 NET SYSTEM OUTFLOW = -942.45
 NET SYSTEM DEMAND = 383.99

=====
 ===
 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	291	1154.11	1154.00

Time: 57.000

TIME FROM INITIATION OF EPS = 57.0000 HOURS (21.00PM, DAY: 2)

RESULTS OBTAINED AFTER 15 TRIALS: ACCURACY = 0.00052

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

	11	4	7	-33.91	0.74	0.00	0.87
0.78	0.78						
	12	7	10	-18.55	0.42	0.00	0.47
0.25	0.25						
	15	10	12	-28.73	1.69	0.00	0.73
0.57	0.57						
	18	15	333	-50.61	0.34	0.00	0.57
0.23	0.23						
	20	16	15	127.51	0.75	0.00	1.45
1.25	1.25						
	22	155	331	-18.94	0.31	0.00	0.48
0.26	0.26						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	4.43	0.02	0.00	0.11
0.02	0.02						
	86	76	77	13.22	0.14	0.00	0.34
0.14	0.14						
	87	75	77	1.17	0.00	0.00	0.03
0.00	0.00						
	92	70	76	9.29	0.20	0.00	0.24
0.07	0.07						
	94	97	70	23.29	0.68	0.00	0.59
0.39	0.39						
	96	68	90	11.56	0.08	0.00	0.30
0.11	0.11						
	108	67	68	16.00	0.52	0.00	0.41
0.19	0.19						
	124	90	185	11.95	0.18	0.00	0.30
0.15	0.15						
	134	128	260	8.22	0.30	0.01	0.21
0.09	0.09						
	185	16	122	-22.50	0.11	0.00	0.26
0.05	0.05						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	23.57	1.18	0.00	0.60
0.40	0.40						

	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						
	296	333	2	-126.15	1.06	0.15	1.43
1.40	1.23						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	22.68	0.19	0.00	0.26
0.05	0.05						
	432	261	67	14.70	0.49	0.00	0.38
0.25	0.25						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
 98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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71.20	36	Catnip Hill	0.18(0.75)	1154.30	990.00	164.30
108.34	66	Keene 4 way	3.24(0.75)	1155.03	905.00	250.03
103.96	79	James Lane E	2.56(0.75)	1154.91	915.00	239.91

66.88	131	Drakes Ln EO	0.60(0.75)1089.35	935.00	154.35
108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
132.14	173	Stirling Est	2.29(0.75)1154.93	850.00	304.93
103.98	182	End of Parke	1.93(0.75)1154.95	915.00	239.95
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
322	149.20	137	52.00
173	132.14	200	52.00
53	126.23	O-RV-R2	52.00
60	125.37	96	52.97
178	121.19	15	53.14
I-RV-R1	121.19	I-AV-1	53.14
133	121.05	O-AV-1	53.14
318	121.05	16	55.20
323	121.03	192	55.44
276	116.93	TANK-A	55.74

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
38	6.86	227	0.00
3	1.93	225	0.00
303	1.74	391	0.00
296	1.40	201	0.00
20	1.25	248	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	1.25	227	0.00
296	1.23	225	0.00
9	1.12	391	0.00
38	1.12	201	0.00

303 0.94 248 0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	101.86	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	114.39	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	121.19	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	80.02	52.00	39.54

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
FGN-BB	1.46	
R-1	599.18	KAWC Tank
TANK-A	10.04	Old Tank
TANK-B	76.08	New Tank - P
TANK-C	-302.77	Chinkapin Ta

NET SYSTEM INFLOW = 686.76
 NET SYSTEM OUTFLOW = -302.77
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 57.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
1.59	TANK-A(1)	-10.04	1154.64	1.64	5537.	10.1	DRAINING
20.77	TANK-B(1)	-76.08	1155.85	20.85	306222.	57.9	DRAINING
21.15	TANK-C(1)	302.77	1153.99	20.99	604298.	55.2	FILLING

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

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Time: 57.250

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 = 57.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 57.250
Time: 57.500
Time: 57.750
Time: 58.000

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 = 58.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1161.000
Time: 58.000

TIME FROM INITIATION OF EPS = 58.0000 HOURS (22.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00062

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

11 4 7 -28.74 0.54 0.00 0.73
0.57 0.57

	12	7	10	-16.00	0.32	0.00	0.41
0.19	0.19						
	15	10	12	-24.91	1.30	0.00	0.64
0.44	0.44						
	18	15	333	-40.51	0.23	0.00	0.46
0.15	0.15						
	20	16	15	94.56	0.43	0.00	1.07
0.72	0.72						
	22	155	331	-15.58	0.21	0.00	0.40
0.18	0.18						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	5.08	0.02	0.00	0.13
0.02	0.02						
	86	76	77	13.33	0.14	0.00	0.34
0.14	0.14						
	87	75	77	0.33	0.00	0.00	0.01
0.00	0.00						
	92	70	76	7.75	0.14	0.00	0.20
0.05	0.05						
	94	97	70	20.92	0.56	0.00	0.53
0.32	0.32						
	96	68	90	9.61	0.06	0.00	0.25
0.08	0.08						
	108	67	68	13.59	0.39	0.00	0.35
0.14	0.14						
	124	90	185	9.63	0.12	0.00	0.25
0.10	0.10						
	134	128	260	7.10	0.23	0.00	0.18
0.07	0.06						
	185	16	122	-16.67	0.06	0.00	0.19
0.03	0.03						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	16.63	0.62	0.00	0.42
0.21	0.21						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						

	296	333	2	-99.21	0.68	0.09	1.13
0.90	0.79						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	21.37	0.17	0.00	0.24
0.05	0.05						
	432	261	67	12.65	0.37	0.00	0.32
0.19	0.19						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

71.34	36	Catnip Hill	0.18(0.75)	1154.63	990.00	164.63
108.26	66	Keene 4 way	3.24(0.75)	1154.83	905.00	249.83
103.76	79	James Lane E	2.56(0.75)	1154.46	915.00	239.46
66.88	131	Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35

108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
131.94	173	Stirling Est	2.29(0.75)1154.48	850.00	304.48
103.79	182	End of Parke	1.93(0.75)1154.51	915.00	239.51
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
-----		-----	
322	149.20	137	52.00
173	131.94	200	52.00
53	126.23	O-RV-R2	52.00
60	125.37	96	52.95
178	121.11	O-AV-1	53.23
I-RV-R1	121.11	I-AV-1	53.24
133	121.05	15	53.24
318	121.05	16	55.16
323	121.03	192	55.32
276	116.93	TANK-A	55.83

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
-----		-----	
38	5.09	204	0.00
303	1.74	227	0.00
3	1.49	225	0.00
296	0.90	391	0.00
9	0.84	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
-----		-----	
303	0.94	204	0.00
9	0.84	227	0.00
38	0.84	225	0.00
296	0.79	391	0.00
418	0.73	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	101.77	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	114.37	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	121.11	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	80.00	52.00	39.54

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
FGN-BB	1.46	
R-1	524.69	KAWC Tank
TANK-A	-9.71	Old Tank
TANK-B	72.94	New Tank - P
TANK-C	-205.39	Chinkapin Ta

NET SYSTEM INFLOW = 599.09
 NET SYSTEM OUTFLOW = -215.11
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 58.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
1.88	TANK-A(1)	9.71	1154.84	1.84	6232.	11.4	FILLING
20.54	TANK-B(1)	-72.94	1155.62	20.62	302843.	57.3	DRAINING
21.64	TANK-C(1)	205.39	1154.54	21.54	620053.	56.7	FILLING

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

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Time: 58.250

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 = 58.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 58.250
Time: 58.500
Time: 58.750
Time: 59.000

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 = 59.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1158.000
Time: 59.000

TIME FROM INITIATION OF EPS = 59.0000 HOURS (23.00PM, DAY: 2)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00028

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

0.22 11 4 7 -16.94 0.20 0.00 0.43
0.22 0.22

	12	7	10	-12.10	0.19	0.00	0.31
0.12	0.12						
	15	10	12	-19.92	0.86	0.00	0.51
0.29	0.29						
	18	15	333	-8.54	0.01	0.00	0.10
0.01	0.01						
	20	16	15	-17.45	0.02	0.00	0.20
0.03	0.03						
	22	155	331	-16.76	0.24	0.00	0.43
0.21	0.21						
	35	153	29	27.65	1.33	0.00	0.71
0.53	0.53						
	36	29	195	9.43	0.07	0.00	0.24
0.07	0.07						
	76	65	277	27.34	1.37	0.00	0.70
0.52	0.52						
	77	65	82	26.90	1.35	0.00	0.69
0.51	0.51						
	79	82	83	6.12	0.05	0.00	0.16
0.03	0.03						
	80	67	97	16.80	0.22	0.00	0.43
0.21	0.21						
	86	76	77	27.38	0.52	0.00	0.70
0.52	0.52						
	87	75	77	-3.19	0.02	0.00	0.08
0.01	0.01						
	92	70	76	6.36	0.10	0.00	0.16
0.04	0.04						
	94	97	70	28.84	1.01	0.00	0.74
0.58	0.58						
	96	68	90	3.96	0.01	0.00	0.10
0.01	0.01						
	108	67	68	9.30	0.19	0.00	0.24
0.07	0.07						
	124	90	185	0.98	0.00	0.00	0.02
0.00	0.00						
	134	128	260	6.08	0.17	0.00	0.16
0.05	0.05						
	185	16	122	-9.36	0.02	0.00	0.11
0.01	0.01						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						
	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						
	281	96	167	-6.86	0.12	0.00	0.18
0.04	0.04						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						

0.05	296	333	2	-20.66	0.04	0.00	0.23
	0.04						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						
	396	122	332	36.02	0.46	0.00	0.41
0.12	0.12						
	432	261	67	10.36	0.26	0.00	0.26
0.13	0.13						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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71.23	36	Catnip Hill	0.35(1.50)	1154.38	990.00	164.38
107.02	66	Keene 4 way	6.47(1.50)	1151.98	905.00	246.98
101.35	79	James Lane E	5.12(1.50)	1148.88	915.00	233.88
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00	152.64

107.29	157	KY1267 EOL	2.01(1.50)1087.59	840.00	247.59
129.56	173	Stirling Est	4.57(1.50)1148.98	850.00	298.98
101.43	182	End of Parke	3.87(1.50)1149.06	915.00	234.06
56.28	217	Bark Woods	3.87(1.50)1089.89	960.00	129.89
63.91	233	Hagin EOL	1.76(1.50)1087.48	940.00	147.48

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)
322	148.41	137	51.99
173	129.56	200	51.99
53	125.45	O-RV-R2	52.00
60	124.60	96	52.77
133	120.33	15	53.27
318	120.30	I-AV-1	53.27
323	120.24	O-AV-1	53.32
178	119.65	238	54.77
I-RV-R1	119.65	16	54.99
276	116.86	192	55.05

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	4.17	248	0.00
38	2.71	227	0.00
304	2.20	391	0.00
263	1.41	213	0.00
3	1.21	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	2.18	248	0.00
263	1.39	227	0.00
242	1.08	391	0.00
304	0.91	213	0.00
251	0.69	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.39	73.60	22.41
RV-2	PRV-1	86.70	ACTIVATED	113.13	86.70	65.44
RV-R1	PRV-1	93.20	ACTIVATED	119.65	93.20	51.25
RV-R2	PRV-1	52.00	ACTIVATED	79.16	52.00	92.77

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
FGN-BB	2.91	
R-1	471.67	KAWC Tank
TANK-A	32.74	Old Tank
TANK-B	248.93	New Tank - P
TANK-C	11.71	Chinkapin Ta

NET SYSTEM INFLOW = 767.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 767.97

T A N K S T A T U S R E P O R T (time = 59.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
1.92	TANK-A(1)	-32.74	1155.07	2.07	6997.	12.8	DRAINING
20.16	TANK-B(1)	-248.93	1155.42	20.42	299915.	56.7	DRAINING
21.90	TANK-C(1)	-11.71	1154.91	21.91	630802.	57.7	DRAINING

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

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Time: 59.250

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 = 59.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 59.250

Time: 59.500

Time: 59.750

Time: 60.000

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 = 60.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1156.000
Time: 60.000

TIME FROM INITIATION OF EPS = 60.0000 HOURS (24.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00039

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

0.09 11 4 7 -10.57 0.09 0.00 0.27
0.09 0.09

	12	7	10	-8.00	0.09	0.00	0.20
0.05	0.05						
	15	10	12	-13.31	0.41	0.00	0.34
0.14	0.14						
	18	15	333	11.74	0.02	0.00	0.13
0.02	0.02						
	20	16	15	-55.37	0.16	0.00	0.63
0.27	0.27						
	22	155	331	-11.53	0.12	0.00	0.29
0.11	0.11						
	35	153	29	20.33	0.75	0.00	0.52
0.30	0.30						
	36	29	195	6.96	0.04	0.00	0.18
0.04	0.04						
	76	65	277	19.93	0.76	0.00	0.51
0.29	0.29						
	77	65	82	19.60	0.75	0.00	0.50
0.28	0.28						
	79	82	83	4.45	0.03	0.00	0.11
0.02	0.02						
	80	67	97	12.21	0.12	0.00	0.31
0.12	0.12						
	86	76	77	20.05	0.29	0.00	0.51
0.29	0.29						
	87	75	77	-2.36	0.01	0.00	0.06
0.01	0.01						
	92	70	76	4.64	0.05	0.00	0.12
0.02	0.02						
	94	97	70	21.11	0.57	0.00	0.54
0.32	0.32						
	96	68	90	3.05	0.01	0.00	0.08
0.01	0.01						
	108	67	68	6.95	0.11	0.00	0.18
0.04	0.04						
	124	90	185	0.88	0.00	0.00	0.02
0.00	0.00						
	134	128	260	4.42	0.10	0.00	0.11
0.03	0.03						
	185	16	122	9.04	0.02	0.00	0.10
0.01	0.01						
	224	204	203	2.33	0.01	0.00	0.06
0.01	0.01						
	251	28	153	23.28	0.12	0.01	0.59
0.41	0.39						
	255	64	157	1.47	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.42	0.01	0.00	0.09
0.01	0.01						
	263	77	160	29.48	1.09	0.02	0.75
0.79	0.78						
	278	226	64	2.66	0.01	0.00	0.07
0.01	0.01						
	281	96	167	-10.37	0.26	0.00	0.26
0.09	0.09						
	286	65	168	-17.28	0.35	0.00	0.44
0.29	0.29						

0.10	296	333	2	29.93	0.07	0.01	0.34
	0.09						
	336-XX	331	115				
	382	277	204	5.73	0.05	0.00	0.15
0.03	0.03						
	395	200	288	5.39	0.10	0.00	0.14
0.03	0.03						
	396	122	332	25.44	0.24	0.00	0.29
0.06	0.06						
	432	261	67	7.70	0.15	0.00	0.20
0.08	0.08						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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71.22	36	Catnip Hill	0.26(1.10)	1154.36	990.00	164.36
107.40	66	Keene 4 way	4.75(1.10)	1152.85	905.00	247.85
102.31	79	James Lane E	3.75(1.10)	1151.09	915.00	236.09
66.59	131	Drakes Ln EO	0.88(1.10)	1088.67	935.00	153.67

107.75	157	KY1267 EOL	1.47(1.10)1088.65	840.00	248.65
130.50	173	Stirling Est	3.35(1.10)1151.14	850.00	301.14
102.35	182	End of Parke	2.84(1.10)1151.19	915.00	236.19
56.31	217	Bark Woods	2.84(1.10)1089.96	960.00	129.96
64.39	233	Hagin EOL	1.29(1.10)1088.58	940.00	148.58

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)
322	148.89	137	52.00
173	130.50	200	52.00
53	125.92	O-RV-R2	52.00
60	125.07	96	52.65
133	120.77	15	53.17
318	120.75	I-AV-1	53.17
323	120.72	O-AV-1	53.19
178	120.16	238	54.26
I-RV-R1	120.16	192	54.81
276	116.90	16	54.84

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	2.65	227	0.00
38	1.20	248	0.00
304	1.10	391	0.00
263	0.79	225	0.00
242	0.66	201	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.41	227	0.00
263	0.78	248	0.00
242	0.61	391	0.00
304	0.47	225	0.00
251	0.39	201	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.85	73.60	13.31
RV-2	PRV-1	86.70	ACTIVATED	113.65	86.70	51.42
RV-R1	PRV-1	93.20	ACTIVATED	120.16	93.20	40.47
RV-R2	PRV-1	52.00	ACTIVATED	79.43	52.00	64.84

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
FGN-BB	2.14	
R-1	321.70	KAWC Tank
TANK-A	16.64	Old Tank
TANK-B	110.16	New Tank - P
TANK-C	112.55	Chinkapin Ta

NET SYSTEM INFLOW = 563.18
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 563.18

T A N K S T A T U S R E P O R T (time = 60.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
1.67	TANK-A(1)	-16.64	1154.74	1.74	5899.	10.8	DRAINING
19.49	TANK-B(1)	-110.16	1154.61	19.61	288011.	54.5	DRAINING
21.71	TANK-C(1)	-112.55	1154.77	21.77	626644.	57.3	DRAINING

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

=====
Time: 60.250

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 = 60.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 60.250
Time: 60.500
Time: 60.750
Time: 61.000

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 = 61.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1154.000
Time: 61.000

TIME FROM INITIATION OF EPS = 61.0000 HOURS (25.00PM, DAY: 2)

RESULTS OBTAINED AFTER 9 TRIALS: ACCURACY = 0.00049

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 O D E	N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ N A M E	#1	#2		LOSS	LOSS	VELO.
1000 1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft) (ft/ft)						

0.01 11 4 7 2.35 0.01 0.00 0.06
0.01 0.01

	12	7	10	-1.86	0.01	0.00	0.05
0.00	0.00						
	15	10	12	-4.13	0.05	0.00	0.11
0.02	0.02						
	18	15	333	25.97	0.10	0.00	0.29
0.07	0.07						
	20	16	15	-81.67	0.33	0.00	0.93
0.55	0.55						
	22	155	331	-9.03	0.08	0.00	0.23
0.07	0.07						
	35	153	29	18.51	0.63	0.00	0.47
0.25	0.25						
	36	29	195	6.34	0.03	0.00	0.16
0.03	0.03						
	76	65	277	18.06	0.64	0.00	0.46
0.24	0.24						
	77	65	82	17.76	0.63	0.00	0.45
0.23	0.23						
	79	82	83	4.02	0.02	0.00	0.10
0.01	0.01						
	80	67	97	11.94	0.12	0.00	0.30
0.11	0.11						
	86	76	77	18.22	0.25	0.00	0.47
0.25	0.25						
	87	75	77	-2.36	0.01	0.00	0.06
0.01	0.01						
	92	70	76	3.44	0.03	0.00	0.09
0.01	0.01						
	94	97	70	18.20	0.43	0.00	0.46
0.25	0.25						
	96	68	90	0.54	0.00	0.00	0.01
0.00	0.00						
	108	67	68	4.11	0.04	0.00	0.11
0.02	0.02						
	124	90	185	-1.44	0.00	0.00	0.04
0.00	0.00						
	134	128	260	3.06	0.05	0.00	0.08
0.01	0.01						
	185	16	122	-2.14	0.00	0.00	0.02
0.00	0.00						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						
	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	-14.48	0.48	0.00	0.37
0.16	0.16						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						

	296	333	2	63.69	0.30	0.04	0.72
0.39	0.35						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	23.03	0.20	0.00	0.26
0.05	0.05						
	432	261	67	5.16	0.07	0.00	0.13
0.04	0.04						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

71.09	36	Catnip Hill	0.23	1154.05	990.00	164.05
107.24	66	Keene 4 way	4.31	1152.48	905.00	247.48
102.23	79	James Lane E	3.41	1150.91	915.00	235.91
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89

107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
130.41	173	Stirling Est	3.05	1150.95	850.00	300.95
102.26	182	End of Parke	2.58	1150.99	915.00	235.99
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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)
-----		-----	
322	148.99	137	52.00
173	130.41	200	52.00
53	126.02	O-RV-R2	52.00
60	125.17	96	52.44
133	120.86	15	53.02
318	120.85	I-AV-1	53.03
323	120.82	O-AV-1	53.07
178	120.03	238	53.64
I-RV-R1	120.03	192	54.59
276	116.91	16	54.62

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
-----		-----	
303	2.34	208	0.00
304	0.88	357	0.00
263	0.67	227	0.00
242	0.55	248	0.00
20	0.55	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
-----		-----	
303	1.25	208	0.00
263	0.66	357	0.00
20	0.55	227	0.00
242	0.51	248	0.00
304	0.38	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.70	73.60	10.80
RV-2	PRV-1	86.70	ACTIVATED	113.57	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	120.03	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	79.30	52.00	57.71

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
FGN-BB	1.94	
R-1	148.86	KAWC Tank
TANK-A	27.79	Old Tank
TANK-B	166.52	New Tank - P
TANK-C	166.87	Chinkapin Ta

NET SYSTEM INFLOW = 511.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 511.98

T A N K S T A T U S R E P O R T (time = 61.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
1.35	TANK-A(1)	-27.79	1154.47	1.47	4975.	9.1	DRAINING
19.05	TANK-B(1)	-166.52	1154.22	19.22	282312.	53.4	DRAINING
21.43	TANK-C(1)	-166.87	1154.52	21.52	619487.	56.6	DRAINING

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

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Time: 61.250

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 = 61.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 61.250

Time: 61.500

Time: 61.750

Time: 62.000

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 = 62.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1154.000
Time: 62.000

TIME FROM INITIATION OF EPS = 62.0000 HOURS (26.00PM, DAY: 2)

RESULTS OBTAINED AFTER 12 TRIALS: ACCURACY = 0.00002

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

0.01 11 4 7 -3.52 0.01 0.00 0.09
0.01 0.01

	12	7	10	-3.04	0.01	0.00	0.08
0.01	0.01						
	15	10	12	-5.17	0.07	0.00	0.13
0.02	0.02						
	18	15	333	18.94	0.06	0.00	0.21
0.04	0.04						
	20	16	15	-72.84	0.27	0.00	0.83
0.44	0.44						
	22	155	331	-3.88	0.02	0.00	0.10
0.01	0.01						
	35	153	29	9.30	0.18	0.00	0.24
0.07	0.07						
	36	29	195	3.20	0.01	0.00	0.08
0.01	0.01						
	76	65	277	8.93	0.17	0.00	0.23
0.07	0.07						
	77	65	82	8.78	0.17	0.00	0.22
0.06	0.06						
	79	82	83	1.97	0.01	0.00	0.05
0.00	0.00						
	80	67	97	5.21	0.02	0.00	0.13
0.02	0.02						
	86	76	77	9.07	0.07	0.00	0.23
0.07	0.07						
	87	75	77	-1.03	0.00	0.00	0.03
0.00	0.00						
	92	70	76	2.30	0.01	0.00	0.06
0.01	0.01						
	94	97	70	9.83	0.14	0.00	0.25
0.08	0.08						
	96	68	90	2.06	0.00	0.00	0.05
0.00	0.00						
	108	67	68	3.83	0.04	0.00	0.10
0.01	0.01						
	124	90	185	1.13	0.00	0.00	0.03
0.00	0.00						
	134	128	260	2.19	0.03	0.00	0.06
0.01	0.01						
	185	16	122	19.31	0.08	0.00	0.22
0.04	0.04						
	224	204	203	1.03	0.00	0.00	0.03
0.00	0.00						
	251	28	153	10.64	0.03	0.00	0.27
0.10	0.09						
	255	64	157	0.67	0.00	0.00	0.02
0.00	0.00						
	257	75	159	1.55	0.00	0.00	0.04
0.00	0.00						
	263	77	160	13.40	0.25	0.00	0.34
0.18	0.18						
	278	226	64	1.12	0.00	0.00	0.03
0.00	0.00						
	281	96	167	-12.75	0.38	0.00	0.33
0.13	0.13						
	286	65	168	-9.16	0.11	0.00	0.23
0.09	0.09						

	296	333	2	48.11	0.18	0.02	0.55
0.23	0.21						
	336-XX	331	115				
	382	277	204	2.56	0.01	0.00	0.07
0.01	0.01						
	395	200	288	1.78	0.01	0.00	0.05
0.00	0.00						
	396	122	332	7.57	0.03	0.00	0.09
0.01	0.01						
	432	261	67	4.05	0.05	0.00	0.10
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :
98 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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71.01	36	Catnip Hill	0.12(0.50)	1153.87	990.00	163.87
107.60	66	Keene 4 way	2.16(0.50)	1153.31	905.00	248.31
103.09	79	James Lane E	1.71(0.50)	1152.90	915.00	237.90
67.04	131	Drakes Ln EO	0.40(0.50)	1089.70	935.00	154.70

108.20	157	KY1267 EOL	0.67(0.50)1089.69	840.00	249.69
131.26	173	Stirling Est	1.52(0.50)1152.92	850.00	302.92
103.10	182	End of Parke	1.29(0.50)1152.93	915.00	237.93
56.34	217	Bark Woods	1.29(0.50)1090.02	960.00	130.02
64.86	233	Hagin EOL	0.59(0.50)1089.68	940.00	149.68

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)
322	149.36	137	52.00
173	131.26	200	52.00
53	126.40	O-RV-R2	52.00
60	125.53	96	52.33
133	121.21	15	52.88
318	121.20	I-AV-1	52.88
323	121.20	O-AV-1	52.88
178	120.51	238	53.67
I-RV-R1	120.51	192	54.44
276	116.97	16	54.49

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	0.99	227	0.00
20	0.44	357	0.00
470	0.27	199	0.00
296	0.23	391	0.00
263	0.18	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	0.54	227	0.00
20	0.44	357	0.00
296	0.21	199	0.00
263	0.18	391	0.00
242	0.14	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	101.10	73.64	0.00
RV-2	PRV-1	86.70	ACTIVATED	113.95	86.70	33.51
RV-R1	PRV-1	93.20	ACTIVATED	120.51	93.20	24.18
RV-R2	PRV-1	52.00	ACTIVATED	79.49	52.00	19.60

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
FGN-BB	0.97	
R-1	130.04	KAWC Tank
TANK-A	10.71	Old Tank
TANK-B	-33.06	New Tank - P
TANK-C	147.33	Chinkapin Ta

NET SYSTEM INFLOW = 289.05
 NET SYSTEM OUTFLOW = -33.06
 NET SYSTEM DEMAND = 255.99

T A N K S T A T U S R E P O R T (time = 62.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.99	TANK-A(1)	-10.71	1154.04	1.04	3506.	6.4	DRAINING
18.67	TANK-B(1)	33.06	1153.64	18.64	273807.	51.8	FILLING
21.08	TANK-C(1)	-147.33	1154.15	21.15	609005.	55.7	DRAINING

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

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Time: 62.250

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 = 62.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 62.250
Time: 62.500
Time: 62.750
Time: 63.000

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 = 63.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1149.000
Time: 63.000

TIME FROM INITIATION OF EPS = 63.0000 HOURS (27.00PM, DAY: 2)

RESULTS OBTAINED AFTER 14 TRIALS: ACCURACY = 0.00002

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 O D E N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ HL/	#1 #2		LOSS	LOSS	VELO.
N A M E					
1000 1000		(gpm)	(ft)	(ft)	(ft/s)
(ft/ft) (ft/ft)					

0.07 11 4 7 8.90 0.06 0.00 0.23
0.07 0.07

	12	7	10	2.22	0.01	0.00	0.06
0.00	0.00						
	15	10	12	2.28	0.02	0.00	0.06
0.01	0.01						
	18	15	333	29.83	0.13	0.00	0.34
0.09	0.09						
	20	16	15	-75.62	0.29	0.00	0.86
0.48	0.48						
	22	155	331	-3.94	0.02	0.00	0.10
0.01	0.01						
	35	153	29	13.99	0.38	0.00	0.36
0.15	0.15						
	36	29	195	4.83	0.02	0.00	0.12
0.02	0.02						
	76	65	277	13.32	0.36	0.00	0.34
0.14	0.14						
	77	65	82	13.08	0.36	0.00	0.33
0.13	0.13						
	79	82	83	2.93	0.01	0.00	0.07
0.01	0.01						
	80	67	97	9.65	0.08	0.00	0.25
0.08	0.08						
	86	76	77	13.55	0.14	0.00	0.35
0.14	0.14						
	87	75	77	-2.04	0.01	0.00	0.05
0.00	0.00						
	92	70	76	1.44	0.01	0.00	0.04
0.00	0.00						
	94	97	70	12.23	0.21	0.00	0.31
0.12	0.12						
	96	68	90	-3.22	0.01	0.00	0.08
0.01	0.01						
	108	67	68	-0.66	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-4.65	0.03	0.00	0.12
0.03	0.03						
	134	128	260	0.80	0.00	0.00	0.02
0.00	0.00						
	185	16	122	-8.52	0.02	0.00	0.10
0.01	0.01						
	224	204	203	1.52	0.00	0.00	0.04
0.00	0.00						
	251	28	153	16.00	0.06	0.00	0.41
0.20	0.19						
	255	64	157	1.00	0.00	0.00	0.03
0.00	0.00						
	257	75	159	2.33	0.01	0.00	0.06
0.01	0.01						
	263	77	160	20.10	0.54	0.01	0.51
0.39	0.38						
	278	226	64	1.62	0.00	0.00	0.04
0.00	0.00						
	281	96	167	-13.51	0.42	0.00	0.34
0.14	0.14						
	286	65	168	-12.75	0.20	0.00	0.33
0.17	0.17						

	296	333	2	72.22	0.38	0.05	0.82
0.49	0.44						
	336-XX	331	115				
	382	277	204	3.81	0.02	0.00	0.10
0.01	0.01						
	395	200	288	3.36	0.04	0.00	0.09
0.01	0.01						
	396	122	332	18.18	0.13	0.00	0.21
0.03	0.03						
	432	261	67	0.65	0.00	0.00	0.02
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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70.87	36	Catnip Hill	0.18(0.75)	1153.54	990.00	163.54
107.14	66	Keene 4 way	3.24(0.75)	1152.25	905.00	247.25
102.35	79	James Lane E	2.56(0.75)	1151.19	915.00	236.19
66.88	131	Drakes Ln EO	0.60(0.75)	1089.35	935.00	154.35

108.04	157	KY1267 EOL	1.00(0.75)1089.33	840.00	249.33
130.53	173	Stirling Est	2.29(0.75)1151.21	850.00	301.21
102.37	182	End of Parke	1.93(0.75)1151.24	915.00	236.24
56.33	217	Bark Woods	1.93(0.75)1090.00	960.00	130.00
64.70	233	Hagin EOL	0.88(0.75)1089.30	940.00	149.30

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)
-----		-----	
322	149.20	137	52.00
173	130.53	200	52.00
53	126.23	O-RV-R2	52.00
60	125.37	96	52.19
133	121.05	15	52.75
318	121.05	I-AV-1	52.76
323	121.03	O-AV-1	52.80
178	119.99	238	53.15
I-RV-R1	119.99	192	54.31
276	116.93	16	54.36

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
-----		-----	
303	1.74	187	0.00
296	0.49	227	0.00
20	0.48	103	0.00
304	0.42	225	0.00
263	0.39	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
-----		-----	
303	0.94	187	0.00
20	0.48	227	0.00
296	0.44	103	0.00
263	0.38	225	0.00
242	0.30	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	100.63	73.60	3.61
RV-2	PRV-1	86.70	ACTIVATED	113.60	86.70	40.29
RV-R1	PRV-1	93.20	ACTIVATED	119.99	93.20	32.49
RV-R2	PRV-1	52.00	ACTIVATED	79.22	52.00	39.54

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
FGN-BB	1.46	
R-1	0.00	KAWC Tank
TANK-A	28.33	Old Tank
TANK-B	192.25	New Tank - P
TANK-C	161.95	Chinkapin Ta

NET SYSTEM INFLOW = 383.99
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 383.99

T A N K S T A T U S R E P O R T (time = 63.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.72	TANK-A(1)	-28.33	1153.85	0.85	2874.	5.2	DRAINING
18.49	TANK-B(1)	-192.25	1153.69	18.69	274494.	51.9	DRAINING
20.81	TANK-C(1)	-161.95	1153.89	20.89	601499.	55.0	DRAINING

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

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Time: 63.250

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 = 63.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 63.250
Time: 63.500
Time: 63.750
Time: 64.000

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 = 64.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1144.000
Time: 64.000

TIME FROM INITIATION OF EPS = 64.0000 HOURS (28.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00031

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000	#1	#2		LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)			(gpm)	(ft)	(ft)	(ft/s)

11 4 7 14.86 0.16 0.00 0.38
0.17 0.17

	12	7	10	3.70	0.02	0.00	0.09
0.01	0.01						
	15	10	12	3.80	0.04	0.00	0.10
0.01	0.01						
	18	15	333	49.70	0.33	0.00	0.56
0.22	0.22						
	20	16	15	-126.53	0.74	0.00	1.44
1.24	1.24						
	22	155	331	-6.47	0.04	0.00	0.17
0.04	0.04						
	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.26	0.21	0.00	0.42
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.35	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.61	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.65	0.54	0.00	0.53
0.31	0.31						
	96	68	90	-5.41	0.02	0.00	0.14
0.03	0.03						
	108	67	68	-1.08	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-7.81	0.08	0.00	0.20
0.07	0.07						
	134	128	260	1.36	0.01	0.00	0.03
0.00	0.00						
	185	16	122	-14.07	0.05	0.00	0.16
0.02	0.02						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-22.69	1.10	0.00	0.58
0.37	0.37						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						

	296	333	2	120.54	0.98	0.14	1.37
1.29	1.13						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	30.11	0.33	0.00	0.34
0.09	0.09						
	432	261	67	1.13	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS	#PUMPS	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

70.46	36	Catnip Hill	0.29(1.25)	1152.60	990.00	162.60
105.85	66	Keene 4 way	5.39(1.25)	1149.28	905.00	244.28
100.31	79	James Lane E	4.26(1.25)	1146.49	915.00	231.49
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32

107.59	157	KY1267 EOL	1.68(1.25)1088.28	840.00	248.28
128.51	173	Stirling Est	3.81(1.25)1146.56	850.00	296.56
100.37	182	End of Parke	3.22(1.25)1146.62	915.00	231.62
56.30	217	Bark Woods	3.22(1.25)1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)1088.20	940.00	148.20

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)
322	148.72	96	51.72
173	128.51	137	51.99
53	125.76	200	51.99
60	124.91	O-RV-R2	52.00
133	120.62	238	52.12
318	120.60	15	52.48
323	120.56	I-AV-1	52.48
178	118.56	O-AV-1	52.59
I-RV-R1	118.56	192	53.76
276	116.89	16	53.89

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
304	1.47	248	0.00
296	1.29	227	0.00
20	1.24	346	0.00
263	1.01	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	187	0.00
20	1.24	248	0.00
296	1.13	227	0.00
263	0.99	346	0.00
242	0.77	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.24	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	112.46	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	118.56	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	78.32	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-A	44.35	Old Tank
TANK-B	319.48	New Tank - P
TANK-C	273.72	Chinkapin Ta

NET SYSTEM INFLOW = 639.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 64.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.18	TANK-A(1)	-44.35	1153.38	0.38	1275.	2.3	DRAINING
17.64	TANK-B(1)	-319.48	1152.97	17.97	263889.	49.9	DRAINING
20.38	TANK-C(1)	-273.72	1153.52	20.52	590751.	54.0	DRAINING

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

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Time: 64.250

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 = 64.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 64.250

Time: 64.485

TIME FROM INITIATION OF EPS = 64.4846 HOURS (28.48PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00031

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 O D E N U M B E R S	F L O W R A T E	H E A D	M I N O R	L I N E		
HL+ML/ HL/	#1	#2	LOSS	LOSS	VELO.		
N A M E			(gpm)	(ft)	(ft/s)		
1000 1000							
(ft/ft) (ft/ft)							
0.17	11	4	7	14.88	0.16	0.00	0.38
0.01	12	7	10	3.71	0.02	0.00	0.09
0.01	15	10	12	3.81	0.04	0.00	0.10
0.24	18	15	333	51.96	0.36	0.00	0.59
1.47	20	16	15	-138.77	0.88	0.00	1.57
0.03	22	155	331	-6.17	0.04	0.00	0.16
0.38	35	153	29	23.07	0.95	0.00	0.59
0.05	36	29	195	7.88	0.05	0.00	0.20
0.37	76	65	277	22.72	0.97	0.00	0.58
0.36	77	65	82	22.35	0.96	0.00	0.57

	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.26	0.21	0.00	0.42
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.35	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.62	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.66	0.54	0.00	0.53
0.31	0.31						
	96	68	90	-5.34	0.02	0.00	0.14
0.03	0.03						
	108	67	68	-1.00	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-7.73	0.08	0.00	0.20
0.07	0.07						
	134	128	260	1.39	0.01	0.00	0.04
0.00	0.00						
	185	16	122	-9.59	0.02	0.00	0.11
0.01	0.01						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-24.77	1.30	0.00	0.63
0.43	0.43						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	126.62	1.07	0.15	1.44
1.41	1.24						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	29.40	0.31	0.00	0.33
0.08	0.08						
	432	261	67	1.19	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST	#PUMPS	#PUMPS	INLET NPSH Avail.	OUTLET HEAD	PUMP HEAD	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTAL COST (\$)
			(ft)	(ft)	(ft)	(%)	(Hp)	(\$)

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

70.29	36	Catnip Hill	0.29(1.25)	1152.21	990.00	162.21
105.63	66	Keene 4 way	5.39(1.25)	1148.77	905.00	243.77
100.09	79	James Lane E	4.26(1.25)	1145.98	915.00	230.98
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
128.29	173	Stirling Est	3.81(1.25)	1146.05	850.00	296.05
100.15	182	End of Parke	3.22(1.25)	1146.11	915.00	231.11
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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	MAXIMUM	JUNCTION	MINIMUM
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NUMBER	PRESSURES (psi)	NUMBER	PRESSURES (psi)
322	148.72	96	51.51
173	128.29	238	51.90
53	125.76	137	51.99
60	124.91	200	51.99
133	120.62	O-RV-R2	52.00
318	120.60	15	52.33
323	120.56	I-AV-1	52.33
178	118.34	O-AV-1	52.42
I-RV-R1	118.34	192	53.52
276	116.89	16	53.68

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
304	1.47	248	0.00
20	1.47	227	0.00
296	1.41	391	0.00
470	1.09	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	187	0.00
20	1.47	248	0.00
296	1.24	227	0.00
263	0.99	391	0.00
242	0.77	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.02	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	112.24	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	118.34	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	78.11	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-A	42.91	Old Tank
TANK-B	296.76	New Tank - P
TANK-C	297.88	Chinkapin Ta

NET SYSTEM INFLOW = 639.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

TANK STATUS REPORT (time = 64.4846 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	-42.91	1153.00	0.00	0.	0.0	
17.34	TANK-B(1)	-296.76	1152.34	17.34	254775.	48.2	DRAINING
20.24	TANK-C(1)	-297.88	1153.24	20.24	582606.	53.3	DRAINING

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

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 Tank Filled/Emptied

TIME FROM INITIATION OF EPS = 64.4846 HOURS (28.48PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00031

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

	11	4	7	14.87	0.16	0.00	0.38
0.17	0.17						
	12	7	10	3.71	0.02	0.00	0.09
0.01	0.01						
	15	10	12	3.80	0.04	0.00	0.10
0.01	0.01						
	18	15	333	49.61	0.33	0.00	0.56
0.22	0.22						
	20	16	15	-131.07	0.79	0.00	1.49
1.32	1.32						
	22	155	331	-6.18	0.04	0.00	0.16
0.03	0.03						
	35	153	29	23.07	0.95	0.00	0.59
0.38	0.38						
	36	29	195	7.88	0.05	0.00	0.20
0.05	0.05						
	76	65	277	22.72	0.97	0.00	0.58
0.37	0.37						
	77	65	82	22.35	0.96	0.00	0.57
0.36	0.36						
	79	82	83	5.08	0.04	0.00	0.13
0.02	0.02						
	80	67	97	16.26	0.21	0.00	0.42
0.20	0.20						
	86	76	77	22.65	0.37	0.00	0.58
0.37	0.37						
	87	75	77	-3.35	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.61	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.65	0.54	0.00	0.53
0.31	0.31						
	96	68	90	-5.37	0.02	0.00	0.14
0.03	0.03						
	108	67	68	-1.04	0.00	0.00	0.03
0.00	0.00						
	124	90	185	-7.77	0.08	0.00	0.20
0.07	0.07						
	134	128	260	1.38	0.01	0.00	0.04
0.00	0.00						
	185	16	122	-11.80	0.03	0.00	0.13
0.02	0.02						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						

	281	96	167	-25.15	1.34	0.00	0.64
0.45	0.45						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	123.55	1.02	0.14	1.40
1.35	1.18						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	29.45	0.31	0.00	0.33
0.08	0.08						
	432	261	67	1.16	0.00	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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--	36	Catnip Hill	0.29(1.25)	1152.19	990.00	162.19
70.28	66	Keene 4 way	5.39(1.25)	1148.72	905.00	243.72
105.61						

100.07	79	James Lane E	4.26(1.25)1145.93	915.00	230.93
66.44	131	Drakes Ln EO	1.01(1.25)1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)1088.28	840.00	248.28
128.27	173	Stirling Est	3.81(1.25)1146.00	850.00	296.00
100.13	182	End of Parke	3.22(1.25)1146.06	915.00	231.06
56.30	217	Bark Woods	3.22(1.25)1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)1088.20	940.00	148.20

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)
322	148.72	96	51.48
173	128.27	238	51.88
53	125.76	137	51.99
60	124.91	200	51.99
133	120.62	O-RV-R2	52.00
318	120.60	15	52.26
323	120.56	O-AV-1	52.26
178	118.32	I-AV-1	52.26
I-RV-R1	118.32	192	53.51
276	116.89	16	53.65

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
304	1.47	248	0.00
296	1.35	227	0.00
470	1.34	391	0.00
20	1.32	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	1.67	187	0.00
20	1.32	248	0.00

296	1.18	227	0.00
263	0.99	391	0.00
242	0.77	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	99.00	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	112.23	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	118.32	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	78.09	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-B	306.79	New Tank - P
TANK-C	330.75	Chinkapin Ta

NET SYSTEM INFLOW = 639.97
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 64.4846 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
17.33	TANK-B(1)	-306.79	1152.34	17.34	254774.	48.2	DRAINING
20.23	TANK-C(1)	-330.75	1153.24	20.24	582605.	53.3	DRAINING

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

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Time: 64.500
Time: 64.750
Time: 65.000

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CHANGES FOR NEXT SIMULATION (time = 65.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1142.000
Time: 65.000

TIME FROM INITIATION OF EPS = 65.0000 HOURS (29.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00020

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

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

1000	1000					
(ft/ft)	(ft/ft)					
0.40	11	4	23.76	0.38	0.00	0.61
0.03	12	7	5.92	0.05	0.00	0.15
0.03	15	10	6.08	0.10	0.00	0.16
0.47	18	12	75.00	0.71	0.00	0.85
2.54	20	15	-186.61	1.52	0.00	2.12
0.09	22	155	-10.57	0.10	0.00	0.27
0.91	35	153	36.82	2.26	0.00	0.94
0.12	36	29	12.55	0.12	0.00	0.32

	76	65	277	36.55	2.35	0.00	0.93
0.89	0.89						
	77	65	82	35.97	2.31	0.00	0.92
0.87	0.87						
	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	26.14	0.49	0.00	0.67
0.48	0.48						
	86	76	77	36.29	0.88	0.00	0.93
0.88	0.88						
	87	75	77	-5.32	0.05	0.00	0.14
0.03	0.03						
	92	70	76	4.28	0.05	0.00	0.11
0.02	0.02						
	94	97	70	33.18	1.31	0.00	0.85
0.75	0.75						
	96	68	90	-8.80	0.05	0.00	0.22
0.06	0.06						
	108	67	68	-1.83	0.01	0.00	0.05
0.00	0.00						
	124	90	185	-12.66	0.20	0.00	0.32
0.16	0.16						
	134	128	260	2.16	0.03	0.00	0.06
0.01	0.01						
	185	16	122	-27.21	0.15	0.00	0.31
0.07	0.07						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-36.41	2.65	0.00	0.93
0.89	0.89						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	185.95	2.18	0.32	2.11
2.90	2.52						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	48.45	0.79	0.00	0.55
0.21	0.21						
	432	261	67	1.73	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC- ENCY (%)	USEFUL POWER (Hp)	INCREM TL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
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69.62	36	Catnip Hill	0.47(2.00)	1150.66	990.00	160.66
103.02	66	Keene 4 way	8.63(2.00)	1142.73	905.00	237.73
95.78	79	James Lane E	6.82(2.00)	1136.02	915.00	221.02
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
124.01	173	Stirling Est	6.10(2.00)	1136.18	850.00	286.18
95.91	182	End of Parke	5.16(2.00)	1136.32	915.00	221.32
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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)
322	147.63	238	49.86
53	124.68	96	50.71
173	124.01	15	51.83
60	123.85	O-AV-1	51.83
133	119.62	I-AV-1	51.83
318	119.58	137	51.98
323	119.47	200	51.98
276	116.78	O-RV-R2	52.00
178	115.41	192	52.62
I-RV-R1	115.41	16	52.90

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	187	0.00
304	4.04	248	0.00
296	2.90	213	0.00
470	2.87	391	0.00
20	2.54	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	187	0.00
20	2.54	248	0.00
296	2.52	213	0.00
263	2.37	391	0.00
242	1.83	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.14	73.60	32.85
RV-2	PRV-1	86.70	ACTIVATED	109.94	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	115.41	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	76.36	52.00	126.90

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
FGN-BB	3.89	
R-1	0.00	KAWC Tank
TANK-B	533.92	New Tank - P
TANK-C	486.15	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 1023.96

T A N K S T A T U S R E P O R T (time = 65.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
16.16	TANK-B(1)	-533.92	1151.71	16.71	245443.	46.4	DRAINING
19.62	TANK-C(1)	-486.15	1152.88	19.88	572221.	52.3	DRAINING

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

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Time: 65.250

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 = 65.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 65.250

Time: 65.500
 Time: 65.750
 Time: 66.000

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 = 66.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
 Time: 66.000

TIME FROM INITIATION OF EPS = 66.0000 HOURS (30.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00020

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 O D E N U M B E R S		F L O W R A T E	H E A D	M I N O R	L I N E
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.40	0.40	4	7	23.81	0.38	0.00	0.61
0.03	0.03	7	10	5.94	0.05	0.00	0.15
0.03	0.03	10	12	6.09	0.10	0.00	0.16
0.52	0.52	15	333	79.58	0.80	0.00	0.90
3.22	3.22	16	15	-211.96	1.93	0.00	2.40
0.08	0.08	155	331	-9.95	0.09	0.00	0.25
0.91	0.91	153	29	36.82	2.26	0.00	0.94
0.12	0.12	29	195	12.55	0.12	0.00	0.32
0.89	0.89	65	277	36.55	2.35	0.00	0.93
0.87	0.87	65	82	35.97	2.31	0.00	0.92

	79	82	83	8.20	0.09	0.00	0.21
0.06	0.06						
	80	67	97	26.13	0.49	0.00	0.67
0.48	0.48						
	86	76	77	36.29	0.88	0.00	0.93
0.88	0.88						
	87	75	77	-5.32	0.05	0.00	0.14
0.03	0.03						
	92	70	76	4.30	0.05	0.00	0.11
0.02	0.02						
	94	97	70	33.21	1.31	0.00	0.85
0.75	0.75						
	96	68	90	-8.64	0.05	0.00	0.22
0.06	0.06						
	108	67	68	-1.66	0.01	0.00	0.04
0.00	0.00						
	124	90	185	-12.49	0.19	0.00	0.32
0.16	0.16						
	134	128	260	2.22	0.03	0.00	0.06
0.01	0.01						
	185	16	122	-18.18	0.07	0.00	0.21
0.03	0.03						
	224	204	203	4.31	0.02	0.00	0.11
0.02	0.02						
	251	28	153	42.18	0.35	0.02	1.08
1.23	1.16						
	255	64	157	2.68	0.03	0.00	0.07
0.01	0.01						
	257	75	159	6.22	0.03	0.00	0.16
0.04	0.04						
	263	77	160	53.60	3.31	0.06	1.37
2.41	2.37						
	278	226	64	5.06	0.03	0.00	0.13
0.02	0.02						
	281	96	167	-40.59	3.24	0.00	1.04
1.09	1.09						
	286	65	168	-30.07	0.97	0.01	0.77
0.82	0.81						
	296	333	2	198.33	2.46	0.37	2.25
3.27	2.84						
	336-XX	331	115				
	382	277	204	10.53	0.15	0.00	0.27
0.09	0.09						
	395	200	288	10.40	0.34	0.01	0.27
0.09	0.09						
	396	122	332	46.93	0.75	0.00	0.53
0.20	0.20						
	432	261	67	1.87	0.01	0.00	0.05
0.01	0.01						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98

133

212

337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
69.02	36	Catnip Hill	0.47(2.00)	1149.28	990.00	159.28
102.26	66	Keene 4 way	8.63(2.00)	1140.98	905.00	235.98
95.02	79	James Lane E	6.82(2.00)	1134.27	915.00	219.27
65.42	131	Drakes Ln EO	1.61(2.00)	1085.97	935.00	150.97
106.55	157	KY1267 EOL	2.68(2.00)	1085.89	840.00	245.89
123.25	173	Stirling Est	6.10(2.00)	1134.43	850.00	284.43
95.15	182	End of Parke	5.16(2.00)	1134.58	915.00	219.58
56.24	217	Bark Woods	5.16(2.00)	1089.78	960.00	129.78
63.13	233	Hagin EOL	2.35(2.00)	1085.69	940.00	145.69

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	MAXIMUM	JUNCTION	MINIMUM
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NUMBER	PRESSURES (psi)	NUMBER	PRESSURES (psi)
322	147.63	238	49.10
53	124.68	96	49.99
60	123.85	15	51.26
173	123.25	O-AV-1	51.26
133	119.62	I-AV-1	51.26
318	119.58	192	51.81
323	119.47	137	51.98
276	116.78	200	51.98
279	115.27	O-RV-R2	52.00
178	114.66	16	52.16

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	6.70	187	0.00
304	4.04	248	0.00
470	3.44	213	0.00
296	3.27	391	0.00
20	3.22	227	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
303	3.44	187	0.00
20	3.22	248	0.00
296	2.84	213	0.00
263	2.37	391	0.00
242	1.83	227	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	95.39	73.60	32.84
RV-2	PRV-1	86.70	ACTIVATED	109.21	86.70	83.83
RV-R1	PRV-1	93.20	ACTIVATED	114.66	93.20	65.57
RV-R2	PRV-1	52.00	ACTIVATED	75.62	52.00	126.90

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
FGN-BB	3.89	
R-1	0.00	KAWC Tank
TANK-B	487.27	New Tank - P
TANK-C	532.80	Chinkapin Ta

NET SYSTEM INFLOW = 1023.96
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 1023.96

TANK STATUS REPORT (time = 66.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
14.11	TANK-B(1)	-487.27	1149.60	14.60	214520.	40.6	DRAINING
18.55	TANK-C(1)	-532.80	1151.82	18.82	541939.	49.5	DRAINING

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

=====
Time: 66.250

CHANGES FOR NEXT SIMULATION (time = 66.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 66.250
Time: 66.500
Time: 66.750
Time: 67.000

CHANGES FOR NEXT SIMULATION (time = 67.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
Time: 67.000

TIME FROM INITIATION OF EPS = 67.0000 HOURS (31.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00025

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.24	0.24	4	7	17.94	0.23	0.00	0.46
0.02	0.02	7	10	4.48	0.03	0.00	0.11
0.02	0.02	10	12	4.59	0.06	0.00	0.12
0.41	0.41	15	333	69.28	0.62	0.00	0.79
3.18	3.18	16	15	-210.81	1.91	0.00	2.39
0.04	0.04	155	331	-6.57	0.04	0.00	0.17
0.53	0.53	153	29	27.65	1.33	0.00	0.71
0.07	0.07	29	195	9.43	0.07	0.00	0.24
0.52	0.52	65	277	27.34	1.37	0.00	0.70
0.51	0.51	65	82	26.90	1.35	0.00	0.69
0.03	0.03	82	83	6.12	0.05	0.00	0.16
0.28	0.28	67	97	19.53	0.29	0.00	0.50

	86	76	77	27.20	0.52	0.00	0.69
0.52	0.52						
	87	75	77	-4.00	0.03	0.00	0.10
0.01	0.01						
	92	70	76	3.22	0.03	0.00	0.08
0.01	0.01						
	94	97	70	24.89	0.77	0.00	0.64
0.44	0.44						
	96	68	90	-6.19	0.03	0.00	0.16
0.03	0.03						
	108	67	68	-0.96	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-9.06	0.11	0.00	0.23
0.09	0.09						
	134	128	260	1.76	0.02	0.00	0.04
0.00	0.00						
	185	16	122	7.08	0.01	0.00	0.08
0.01	0.01						
	224	204	203	3.21	0.01	0.00	0.08
0.01	0.01						
	251	28	153	31.67	0.21	0.01	0.81
0.72	0.69						
	255	64	157	2.01	0.02	0.00	0.05
0.00	0.00						
	257	75	159	4.66	0.02	0.00	0.12
0.03	0.03						
	263	77	160	40.20	1.94	0.03	1.03
1.41	1.39						
	278	226	64	3.74	0.02	0.00	0.10
0.01	0.01						
	281	96	167	-39.12	3.03	0.00	1.00
1.01	1.01						
	286	65	168	-22.89	0.59	0.01	0.58
0.50	0.49						
	296	333	2	174.65	1.94	0.29	1.98
2.58	2.25						
	336-XX	331	115				
	382	277	204	7.87	0.08	0.00	0.20
0.05	0.05						
	395	200	288	7.64	0.19	0.01	0.20
0.05	0.05						
	396	122	332	32.66	0.38	0.00	0.37
0.10	0.10						
	432	261	67	1.65	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

68.72	36	Catnip Hill	0.35(1.50)	1148.59	990.00	158.59
103.17	66	Keene 4 way	6.47(1.50)	1143.08	905.00	238.08
97.13	79	James Lane E	5.12(1.50)	1139.15	915.00	224.15
66.14	131	Drakes Ln EO	1.21(1.50)	1087.64	935.00	152.64
107.29	157	KY1267 EOL	2.01(1.50)	1087.59	840.00	247.59
125.34	173	Stirling Est	4.57(1.50)	1139.24	850.00	289.24
97.21	182	End of Parke	3.87(1.50)	1139.33	915.00	224.33
56.28	217	Bark Woods	3.87(1.50)	1089.89	960.00	129.89
63.91	233	Hagin EOL	1.76(1.50)	1087.48	940.00	147.48

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)
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322	148.41	96	49.60
53	125.45	238	49.60
173	125.34	15	50.84
60	124.60	O-AV-1	50.84
133	120.33	I-AV-1	50.84
318	120.30	192	51.46
323	120.24	16	51.75
276	116.86	137	51.99
279	115.98	200	51.99
178	115.79	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	4.17	187	0.00
20	3.18	248	0.00
470	2.99	227	0.00
296	2.58	391	0.00
304	2.20	213	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	3.18	187	0.00
296	2.25	248	0.00
303	2.18	227	0.00
263	1.39	391	0.00
467	1.09	213	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.48	73.60	22.41
RV-2	PRV-1	86.70	ACTIVATED	109.90	86.70	65.44
RV-R1	PRV-1	93.20	ACTIVATED	115.79	93.20	51.25
RV-R2	PRV-1	52.00	ACTIVATED	75.92	52.00	92.77

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
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NAME	(gpm)	TITLE
FGN-BB	2.91	
R-1	0.00	KAWC Tank
TANK-B	268.94	New Tank - P
TANK-C	496.12	Chinkapin Ta

NET SYSTEM INFLOW = 767.97
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 767.97

TANK STATUS REPORT (time = 67.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
12.40	TANK-B(1)	-268.94	1147.67	12.67	186117.	35.2	DRAINING
17.43	TANK-C(1)	-496.12	1150.68	17.68	509137.	46.5	DRAINING

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

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Time: 67.250

CHANGES FOR NEXT SIMULATION (time = 67.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 67.250
Time: 67.500
Time: 67.750
Time: 68.000

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 = 68.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1112.000
Time: 68.000

TIME FROM INITIATION OF EPS = 68.0000 HOURS (32.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00030

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.17	0.17	4	7	14.99	0.16	0.00	0.38
0.01	0.01	7	10	3.74	0.02	0.00	0.10
0.01	0.01	10	12	3.83	0.04	0.00	0.10
0.35	0.35	15	333	63.65	0.53	0.00	0.72
3.04	3.04	16	15	-205.62	1.82	0.00	2.33
0.02	0.02	155	331	-5.04	0.03	0.00	0.13
0.38	0.38	153	29	23.07	0.95	0.00	0.59
0.05	0.05	29	195	7.88	0.05	0.00	0.20
0.37	0.37	65	277	22.72	0.97	0.00	0.58
0.36	0.36	65	82	22.35	0.96	0.00	0.57
0.02	0.02	82	83	5.08	0.04	0.00	0.13
0.20	0.20	67	97	16.23	0.20	0.00	0.41
0.37	0.37	76	77	22.65	0.37	0.00	0.58

	87	75	77	-3.34	0.02	0.00	0.09
0.01	0.01						
	92	70	76	2.67	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.73	0.55	0.00	0.53
0.31	0.31						
	96	68	90	-4.99	0.02	0.00	0.13
0.02	0.02						
	108	67	68	-0.63	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-7.38	0.07	0.00	0.19
0.06	0.06						
	134	128	260	1.52	0.01	0.00	0.04
0.00	0.00						
	185	16	122	17.95	0.07	0.00	0.20
0.03	0.03						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-37.70	2.83	0.00	0.96
0.95	0.95						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	161.38	1.68	0.24	1.83
2.22	1.94						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	25.10	0.23	0.00	0.28
0.06	0.06						
	432	261	67	1.52	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

68.37	36	Catnip Hill	0.29(1.25)	1147.78	990.00	157.78
103.34	66	Keene 4 way	5.39(1.25)	1143.49	905.00	238.49
97.80	79	James Lane E	4.26(1.25)	1140.70	915.00	225.70
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
126.00	173	Stirling Est	3.81(1.25)	1140.77	850.00	290.77
97.86	182	End of Parke	3.22(1.25)	1140.83	915.00	225.83
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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)
322	148.72	96	49.24
173	126.00	238	49.61

53	125.76	15	50.45
60	124.91	O-AV-1	50.45
133	120.62	I-AV-1	50.45
318	120.60	192	51.15
323	120.56	16	51.39
276	116.89	137	51.99
279	116.28	200	51.99
178	116.06	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
20	3.04	248	0.00
470	2.70	342	0.00
296	2.22	227	0.00
304	1.47	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	3.04	187	0.00
296	1.94	248	0.00
303	1.67	342	0.00
263	0.99	227	0.00
467	0.95	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.73	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	109.97	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	116.06	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	75.83	52.00	75.40

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

FGN-BB	2.43	
R-1	0.00	KAWC Tank
TANK-B	166.79	New Tank - P
TANK-C	470.75	Chinkapin Ta

NET SYSTEM INFLOW = 639.98
NET SYSTEM OUTFLOW = 0.00
NET SYSTEM DEMAND = 639.98

TANK STATUS REPORT (time = 68.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
11.41	TANK-B(1)	-166.79	1146.58	11.58	170056.	32.2	DRAINING
16.40	TANK-C(1)	-470.75	1149.65	16.65	479295.	43.8	DRAINING

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

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Time: 68.250

CHANGES FOR NEXT SIMULATION (time = 68.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 68.250
Time: 68.500
Time: 68.750
Time: 69.000

CHANGES FOR NEXT SIMULATION (time = 69.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1121.000
Time: 69.000

TIME FROM INITIATION OF EPS = 69.0000 HOURS (33.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00030

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 O D E N U M B E R S		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ N A M E	HL/ 1000 1000	#1	#2	(gpm)	LOSS	LOSS	VELO.
(ft/ft)	(ft/ft)				(ft)	(ft)	(ft/s)
0.17	0.17	4	7	14.98	0.16	0.00	0.38
0.01	0.01	7	10	3.74	0.02	0.00	0.10
0.01	0.01	10	12	3.83	0.04	0.00	0.10
0.33	0.33	15	333	62.01	0.50	0.00	0.70
2.82	2.82	16	15	-197.39	1.69	0.00	2.24
0.02	0.02	155	331	-5.16	0.03	0.00	0.13
0.38	0.38	153	29	23.07	0.95	0.00	0.59
0.05	0.05	29	195	7.88	0.05	0.00	0.20
0.37	0.37	65	277	22.72	0.97	0.00	0.58
0.36	0.36	65	82	22.35	0.96	0.00	0.57
0.02	0.02	82	83	5.08	0.04	0.00	0.13
0.20	0.20	67	97	16.23	0.20	0.00	0.41
0.37	0.37	76	77	22.65	0.37	0.00	0.58
0.01	0.01	75	77	-3.34	0.02	0.00	0.09

	92	70	76	2.66	0.02	0.00	0.07
0.01	0.01						
	94	97	70	20.71	0.55	0.00	0.53
0.31	0.31						
	96	68	90	-5.04	0.02	0.00	0.13
0.02	0.02						
	108	67	68	-0.68	0.00	0.00	0.02
0.00	0.00						
	124	90	185	-7.42	0.07	0.00	0.19
0.06	0.06						
	134	128	260	1.50	0.01	0.00	0.04
0.00	0.00						
	185	16	122	14.68	0.05	0.00	0.17
0.02	0.02						
	224	204	203	2.66	0.01	0.00	0.07
0.01	0.01						
	251	28	153	26.42	0.15	0.01	0.67
0.52	0.49						
	255	64	157	1.68	0.01	0.00	0.04
0.00	0.00						
	257	75	159	3.89	0.01	0.00	0.10
0.02	0.02						
	263	77	160	33.50	1.39	0.02	0.86
1.01	0.99						
	278	226	64	3.07	0.01	0.00	0.08
0.01	0.01						
	281	96	167	-36.30	2.64	0.00	0.93
0.88	0.88						
	286	65	168	-19.36	0.43	0.01	0.49
0.36	0.36						
	296	333	2	157.00	1.59	0.23	1.78
2.11	1.84						
	336-XX	331	115				
	382	277	204	6.53	0.06	0.00	0.17
0.04	0.04						
	395	200	288	6.24	0.13	0.01	0.16
0.04	0.03						
	396	122	332	25.77	0.25	0.00	0.29
0.06	0.06						
	432	261	67	1.47	0.01	0.00	0.04
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
68.00	36	Catnip Hill	0.29(1.25)	1146.92	990.00	156.92
103.02	66	Keene 4 way	5.39(1.25)	1142.73	905.00	237.73
97.48	79	James Lane E	4.26(1.25)	1139.94	915.00	224.94
66.44	131	Drakes Ln EO	1.01(1.25)	1088.32	935.00	153.32
107.59	157	KY1267 EOL	1.68(1.25)	1088.28	840.00	248.28
125.67	173	Stirling Est	3.81(1.25)	1140.01	850.00	290.01
97.53	182	End of Parke	3.22(1.25)	1140.07	915.00	225.07
56.30	217	Bark Woods	3.22(1.25)	1089.93	960.00	129.93
64.22	233	Hagin EOL	1.47(1.25)	1088.20	940.00	148.20

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)
322	148.72	96	48.91
53	125.76	238	49.28
173	125.67	15	50.06
60	124.91	O-AV-1	50.06

133	120.62	I-AV-1	50.06
318	120.60	192	50.83
323	120.56	16	51.06
276	116.89	137	51.99
279	116.28	200	51.99
178	115.73	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
303	3.17	187	0.00
20	2.82	248	0.00
470	2.52	227	0.00
296	2.11	391	0.00
304	1.47	103	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.82	187	0.00
296	1.84	248	0.00
303	1.67	227	0.00
263	0.99	391	0.00
467	0.90	103	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.40	73.60	16.85
RV-2	PRV-1	86.70	ACTIVATED	109.64	86.70	56.57
RV-R1	PRV-1	93.20	ACTIVATED	115.73	93.20	44.40
RV-R2	PRV-1	52.00	ACTIVATED	75.51	52.00	75.40

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
FGN-BB	2.43	
R-1	0.00	KAWC Tank

TANK-B 182.61 New Tank - P
 TANK-C 454.94 Chinkapin Ta

NET SYSTEM INFLOW = 639.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 639.98

T A N K S T A T U S R E P O R T (time = 69.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.68	TANK-B(1)	-182.61	1145.87	10.87	159664.	30.2	DRAINING
15.44	TANK-C(1)	-454.94	1148.68	15.68	451434.	41.3	DRAINING

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

=====
 Time: 69.250

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 = 69.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 69.250
 Time: 69.500
 Time: 69.750
 Time: 70.000

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 = 70.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1131.000
Time: 70.000

TIME FROM INITIATION OF EPS = 70.0000 HOURS (34.00PM, DAY: 2)

RESULTS OBTAINED AFTER 8 TRIALS: ACCURACY = 0.00040

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE HL+ML/ NAME	HL/ NAME	NODE NUMBERS #1 #2	FLOWRATE (gpm)	HEAD LOSS (ft)	MINOR LOSS (ft)	LINE VELO. (ft/s)
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0.11	11	4	7	12.04	0.11	0.00	0.31
0.01	12	7	10	3.01	0.01	0.00	0.08
0.01	15	10	12	3.08	0.03	0.00	0.08
0.27	18	15	333	55.49	0.41	0.00	0.63
2.54	20	16	15	-186.64	1.52	0.00	2.12
0.01	22	155	331	-3.66	0.01	0.00	0.09
0.25	35	153	29	18.51	0.63	0.00	0.47
0.03	36	29	195	6.34	0.03	0.00	0.16
0.24	76	65	277	18.06	0.64	0.00	0.46
0.23	77	65	82	17.76	0.63	0.00	0.45
0.01	79	82	83	4.02	0.02	0.00	0.10
0.13	80	67	97	12.93	0.13	0.00	0.33
0.24	86	76	77	18.10	0.24	0.00	0.46
0.01	87	75	77	-2.68	0.02	0.00	0.07
0.00	92	70	76	2.12	0.01	0.00	0.05

	94	97	70	16.56	0.36	0.00	0.42
0.21	0.21						
	96	68	90	-3.83	0.01	0.00	0.10
0.01	0.01						
	108	67	68	-0.34	0.00	0.00	0.01
0.00	0.00						
	124	90	185	-5.72	0.05	0.00	0.15
0.04	0.04						
	134	128	260	1.27	0.01	0.00	0.03
0.00	0.00						
	185	16	122	22.99	0.11	0.00	0.26
0.05	0.05						
	224	204	203	2.10	0.01	0.00	0.05
0.00	0.00						
	251	28	153	21.19	0.10	0.00	0.54
0.34	0.33						
	255	64	157	1.34	0.01	0.00	0.03
0.00	0.00						
	257	75	159	3.11	0.01	0.00	0.08
0.01	0.01						
	263	77	160	26.80	0.92	0.01	0.68
0.67	0.66						
	278	226	64	2.38	0.01	0.00	0.06
0.01	0.01						
	281	96	167	-33.98	2.33	0.00	0.87
0.78	0.78						
	286	65	168	-15.93	0.30	0.00	0.41
0.25	0.25						
	296	333	2	141.29	1.31	0.19	1.60
1.73	1.52						
	336-XX	331	115				
	382	277	204	5.19	0.04	0.00	0.13
0.02	0.02						
	395	200	288	4.82	0.08	0.00	0.12
0.02	0.02						
	396	122	332	17.93	0.13	0.00	0.20
0.03	0.03						
	432	261	67	1.35	0.01	0.00	0.03
0.00	0.00						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

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

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

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

67.71	36	Catnip Hill	0.23	1146.25	990.00	156.25
103.20	66	Keene 4 way	4.31	1143.16	905.00	238.16
98.08	79	James Lane E	3.41	1141.33	915.00	226.33
66.69	131	Drakes Ln EO	0.80	1088.89	935.00	153.89
107.84	157	KY1267 EOL	1.34	1088.86	840.00	248.86
126.26	173	Stirling Est	3.05	1141.38	850.00	291.38
98.11	182	End of Parke	2.58	1141.42	915.00	226.42
56.32	217	Bark Woods	2.58	1089.97	960.00	129.97
64.49	233	Hagin EOL	1.17	1088.81	940.00	148.81

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	MAXIMUM	JUNCTION	MINIMUM
NUMBER	PRESSURES	NUMBER	PRESSURES
	(psi)		(psi)
322	148.99	96	48.65
173	126.26	238	49.33
53	126.02	15	49.72
60	125.17	O-AV-1	49.72
133	120.86	I-AV-1	49.72
318	120.85	192	50.62

323	120.82	16	50.79
276	116.91	137	52.00
279	116.52	200	52.00
178	115.99	O-RV-R2	52.00

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
20	2.54	187	0.00
303	2.34	227	0.00
470	2.15	248	0.00
296	1.73	391	0.00
304	0.88	225	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	2.54	187	0.00
296	1.52	227	0.00
303	1.25	248	0.00
281	0.78	391	0.00
467	0.74	225	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	ACTIVATED	96.65	73.60	10.80
RV-2	PRV-1	86.70	ACTIVATED	109.74	86.70	48.09
RV-R1	PRV-1	93.20	ACTIVATED	115.99	93.20	37.97
RV-R2	PRV-1	52.00	ACTIVATED	75.46	52.00	57.71

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
FGN-BB	1.94	
R-1	0.00	KAWC Tank
TANK-B	90.31	New Tank - P
TANK-C	419.73	Chinkapin Ta

NET SYSTEM INFLOW = 511.98
 NET SYSTEM OUTFLOW = 0.00
 NET SYSTEM DEMAND = 511.98

TANK STATUS REPORT (time = 70.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
10.01	TANK-B(1)	-90.31	1145.11	10.11	148446.	28.1	DRAINING
14.52	TANK-C(1)	-419.73	1147.74	14.74	424399.	38.8	DRAINING

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

=====
 Time: 70.250

CHANGES FOR NEXT SIMULATION (time = 70.2500 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

Time: 70.250
 Time: 70.500
 Time: 70.750
 Time: 71.000

CHANGES FOR NEXT SIMULATION (time = 71.0000 hours)

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

JUNCTION DEMANDS CHANGED - PLEASE SEE RESULTS TABLE

TANK at node R-1 has a new HGL of 1140.000
 Time: 71.000

TIME FROM INITIATION OF EPS = 71.0000 HOURS (35.00PM, DAY: 2)

RESULTS OBTAINED AFTER 14 TRIALS: ACCURACY = 0.00047

PIPELINE RESULTS

STATUS CODE: XX -CLOSED PIPE CV -CHECK VALVE

PIPE		NODE NUMBERS		FLOWRATE	HEAD	MINOR	LINE
HL+ML/ NAME	HL/ NAME	#1	#2		LOSS	LOSS	VELO.
1000	1000			(gpm)	(ft)	(ft)	(ft/s)
(ft/ft)	(ft/ft)						
0.02	11	4	7	4.29	0.02	0.00	0.11
0.00	12	7	10	1.16	0.00	0.00	0.03
0.00	15	10	12	1.15	0.00	0.00	0.03
0.15	18	15	333	39.89	0.22	0.00	0.45
1.65	20	16	15	-147.80	0.99	0.00	1.68
0.05	22	155	331	7.91	0.06	0.00	0.20
0.02	35	153	29	4.41	0.04	0.00	0.11
0.00	36	29	195	1.43	0.00	0.00	0.04
0.02	76	65	277	4.97	0.06	0.00	0.13
0.02	77	65	82	4.92	0.06	0.00	0.13
0.00	79	82	83	1.18	0.00	0.00	0.03
0.00	80	67	97	1.83	0.00	0.00	0.05
0.02	86	76	77	4.36	0.02	0.00	0.11
0.00	87	75	77	-0.30	0.00	0.00	0.01
0.00	92	70	76	1.84	0.01	0.00	0.05
0.03	94	97	70	5.81	0.05	0.00	0.15

	96	68	90	2.48	0.00	0.00	0.06
0.01	0.01						
	108	67	68	3.59	0.03	0.00	0.09
0.01	0.01						
	124	90	185	2.39	0.01	0.00	0.06
0.01	0.01						
	134	128	260	1.57	0.01	0.00	0.04
0.00	0.00						
	185	16	122	34.21	0.24	0.00	0.39
0.11	0.11						
	224	204	203	0.64	0.00	0.00	0.02
0.00	0.00						
	251	28	153	5.08	0.01	0.00	0.13
0.02	0.02						
	255	64	157	0.34	0.00	0.00	0.01
0.00	0.00						
	257	75	159	0.78	0.00	0.00	0.02
0.00	0.00						
	263	77	160	6.70	0.07	0.00	0.17
0.05	0.05						
	278	226	64	0.91	0.00	0.00	0.02
0.00	0.00						
	281	96	167	-26.48	1.47	0.00	0.68
0.49	0.49						
	286	65	168	-5.05	0.04	0.00	0.13
0.03	0.03						
	296	333	2	102.67	0.73	0.10	1.16
0.95	0.84						
	336-XX	331	115				
	382	277	204	1.46	0.00	0.00	0.04
0.00	0.00						
	395	200	288	0.36	0.00	0.00	0.01
0.00	0.00						
	396	122	332	-7.51	0.03	0.00	0.09
0.01	0.01						
	432	261	67	3.41	0.03	0.00	0.09
0.02	0.02						
	474-XX	245	166				

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

98 133 212 337

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

TOTAL COST (\$)	#PUMPS NAME	#PUMPS FLOWRATE (gpm)	INLET NPSH Avail. (ft)	OUTLET HEAD (ft)	PUMP HEAD (ft)	EFFIC-ENCY (%)	USEFUL POWER (Hp)	INCREMENTL COST (\$)
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FOLLOWING ADDITIONAL PIPES ARE CLOSED :

FOLLOWING ADDITIONAL PIPES ARE CLOSED :

N O D E R E S U L T S

NODE	NODE NAME	NODE TITLE	EXTERNAL DEMAND (gpm)	HYDRAULIC GRADE (ft)	NODE ELEVATION (ft)	PRESSURE HEAD (ft)
67.64	36	Catnip Hill	0.06(0.25)	1146.09	990.00	156.09
103.95	66	Keene 4 way	1.08(0.25)	1144.89	905.00	239.89
99.56	79	James Lane E	0.85(0.25)	1144.75	915.00	229.75
67.14	131	Drakes Ln EO	0.20(0.25)	1089.95	935.00	154.95
108.31	157	KY1267 EOL	0.34(0.25)	1089.95	840.00	249.95
127.73	173	Stirling Est	0.76(0.25)	1144.75	850.00	294.75
99.56	182	End of Parke	0.64(0.25)	1144.76	915.00	229.76
56.35	217	Bark Woods	0.64(0.25)	1090.04	960.00	130.04
64.98	233	Hagin EOL	0.29(0.25)	1089.94	940.00	149.94

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)
322	149.48	96	48.68
173	127.73	15	49.53
53	126.51	O-AV-1	49.53
60	125.64	I-AV-1	49.53
318	121.31	238	49.85
133	121.31	192	50.64
323	121.31	16	50.83
276	117.01	137	52.01
279	116.98	200	52.01

178 116.92 O-RV-R2 52.01

H L + M L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL+ML/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL+ML/1000 (ft/ft)
20	1.65	424	0.00
470	1.22	291	0.00
296	0.95	199	0.00
281	0.49	441	0.00
120	0.42	391	0.00

H L / 1 0 0 0

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
20	1.65	424	0.00
296	0.84	291	0.00
281	0.49	199	0.00
120	0.42	441	0.00
467	0.42	391	0.00

R E G U L A T I N G V A L V E R E P O R T

VALVE LABEL	VALVE TYPE	VALVE SETTING (psi or gpm)	VALVE STATUS	UPSTREAM PRESSURE (psi)	DOWNSTREAM PRESSURE (psi)	THROUGH FLOW (gpm)
RV-1	PRV-1	73.60	CLOSED	97.45	73.68	0.00
RV-2	PRV-1	86.70	ACTIVATED	110.43	86.70	25.52
RV-R1	PRV-1	93.20	ACTIVATED	116.92	93.20	13.13
RV-R2	PRV-1	52.00	CLOSED	75.89	52.01	0.00

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
FGN-BB	0.49	
R-1	0.00	KAWC Tank
TANK-B	-187.53	New Tank - P
TANK-C	315.03	Chinkapin Ta

NET SYSTEM INFLOW = 315.52
 NET SYSTEM OUTFLOW = -187.53

NET SYSTEM DEMAND = 128.00

TANK STATUS REPORT (time = 71.0000 hours)

PROJECTED DEPTH (ft)	TANK NAME (*)	NET FLOW (gpm)	WATER ELEVATION (ft)	TANK DEPTH (ft)	TANK VOLUME (gal)	TANK VOLUME (%)	TANK STATUS
0.00	TANK-A(1)	0.00	1153.00	0.00	0.	0.0	EMPTY
9.88	TANK-B(1)	187.53	1144.69	9.69	142292.	26.9	FILLING
13.73	TANK-C(1)	-315.03	1146.89	13.89	399951.	36.6	DRAINING

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

Total Power Cost

TOTAL POWER COST(\$) FOR THIS SIMULATION = 15.32

Max/Min Summary

Summary of Max/Min Node Values

Elevation	Node	MnPres	MnHead	MnHGL	MnTime	MxPres	MxHead	MxHGL	MxTime
985.0	1	66.70	153.93	1138.93	43.75	78.19	180.45	1165.45	2.75
980.0	2	69.04	159.31	1139.31	44.25	79.11	182.55	1162.55	3.75
977.0	3	69.75	160.97	1137.97	31.75	86.29	199.13	1176.13	2.75

997.0	4	61.15	141.10	1138.10	43.75	76.74	177.10	1174.10	2.75
2.751000.0	5	59.92	138.29	1138.29	43.75	74.59	172.12	1172.12	
970.0	6	72.75	167.89	1137.89	31.75	90.76	209.44	1179.44	2.75
2.751000.0	7	59.76	137.90	1137.90	31.75	77.25	178.26	1178.26	
2.751020.0	8	51.10	117.92	1137.92	31.75	68.40	157.85	1177.85	
970.0	9	72.74	167.86	1137.86	31.75	91.73	211.69	1181.69	2.75
2.751000.0	10	59.74	137.87	1137.87	31.75	78.10	180.22	1180.22	
2.751020.0	11	51.08	117.89	1137.89	31.75	68.67	158.47	1178.47	
955.0	12	79.22	182.80	1137.80	31.75	100.84	232.71	1187.71	2.75
927.0	13	91.36	210.83	1137.83	31.75	113.29	261.43	1188.43	2.75
968.0	14	73.57	169.79	1137.79	31.75	95.21	219.71	1187.71	2.75
4.751032.0	15	47.27	109.09	1141.09	44.25	53.52	123.51	1155.51	
4.751028.0	16	48.44	111.78	1139.78	44.25	56.34	130.01	1158.01	
979.0	17	68.67	158.47	1137.47	42.75	77.66	179.21	1158.21	4.75
955.0	18	58.13	134.15	1089.15	6.00	58.53	135.06	1090.06	0.00
949.0	19	60.63	139.92	1088.92	6.00	61.13	141.06	1090.06	0.00
870.0	20	94.02	216.98	1086.98	6.00	95.36	220.06	1090.06	0.00
887.0	21	86.58	199.80	1086.80	6.00	87.99	203.06	1090.06	0.00
887.0	22	86.58	199.80	1086.80	6.00	87.99	203.06	1090.06	0.00
877.0	23	90.86	209.67	1086.67	6.00	92.32	213.06	1090.06	0.00
877.0	24	90.86	209.67	1086.67	6.00	92.32	213.06	1090.06	0.00
870.0	25	93.85	216.58	1086.58	6.00	95.36	220.06	1090.06	0.00
870.0	26	93.85	216.58	1086.58	6.00	95.36	220.06	1090.06	0.00
936.0	27	66.25	152.90	1088.90	6.00	66.76	154.06	1090.06	0.00
927.0	28	70.16	161.92	1088.92	6.00	70.66	163.06	1090.06	0.00
900.0	29	80.72	186.28	1086.28	6.00	82.36	190.05	1090.05	0.00
898.0	30	81.45	187.97	1085.97	6.00	83.22	192.05	1090.05	0.00
977.0	31	69.76	160.97	1137.97	31.75	86.13	198.75	1175.75	2.75

875.0	32	91.55	211.27	1086.27	6.00	93.19	215.05	1090.05	0.00
996.0	33	61.52	141.96	1137.96	31.75	77.74	179.40	1175.40	2.75
995.0	34	63.07	145.56	1140.56	44.25	69.50	160.38	1155.38	4.75
900.0	35	81.93	189.06	1089.06	6.00	82.36	190.06	1090.06	0.00
990.0	36	65.24	150.56	1140.56	44.25	71.66	165.38	1155.38	4.75
990.0	37	64.92	149.82	1139.82	44.25	72.15	166.51	1156.51	4.75
984.0	38	66.72	153.96	1137.96	31.75	82.93	191.37	1175.37	2.75
985.0	39	66.28	152.96	1137.96	31.75	82.46	190.29	1175.29	2.75
992.0	40	63.24	145.95	1137.95	31.75	79.33	183.08	1175.08	2.75
986.0	41	65.84	151.95	1137.95	31.75	81.92	189.05	1175.05	2.75
988.0	42	64.97	149.94	1137.94	31.75	81.02	186.97	1174.97	2.75
996.0	43	61.51	141.94	1137.94	31.75	77.53	178.93	1174.93	2.75
970.0	44	72.70	167.78	1137.78	31.75	94.34	217.71	1187.71	2.75
910.0	45	77.58	179.03	1089.03	6.00	78.03	180.06	1090.06	0.00
968.0	46	73.65	169.96	1137.96	31.75	90.14	208.01	1176.01	2.75
991.0	47	63.69	146.97	1137.97	31.75	79.99	184.60	1175.60	2.75
975.0	48	70.63	162.98	1137.98	31.75	86.63	199.91	1174.91	2.75
920.0	49	72.34	166.94	1086.94	6.00	73.69	170.06	1090.06	0.00
986.0	50	65.84	151.94	1137.94	31.75	81.75	188.66	1174.66	2.75
935.0	51	65.43	150.98	1085.98	6.00	67.19	155.05	1090.05	0.00
940.0	52	85.76	197.91	1137.91	31.75	104.39	240.91	1180.91	2.75
798.0	53	124.68	287.72	1085.72	6.00	126.56	292.05	1090.05	0.00
914.0	54	74.40	171.70	1085.70	6.00	76.29	176.05	1090.05	0.00
885.0	55	86.97	200.69	1085.69	6.00	88.86	205.05	1090.05	0.00
830.0	56	110.82	255.73	1085.73	6.00	112.69	260.05	1090.05	0.00
830.0	57	110.82	255.74	1085.74	6.00	112.69	260.05	1090.05	0.00
825.0	58	112.99	260.75	1085.75	6.00	114.86	265.05	1090.05	0.00
920.0	59	93.15	214.97	1134.97	30.75	105.10	242.53	1162.53	2.75

800.0	60	123.85	285.81	1085.81	6.00	125.69	290.05	1090.05	0.00
896.0	61	82.35	190.04	1086.04	6.00	84.09	194.05	1090.05	0.00
865.0	62	95.83	221.14	1086.14	6.00	97.52	225.05	1090.05	0.00
895.0	63	82.77	191.01	1086.01	6.00	84.52	195.05	1090.05	0.00
889.0	64	85.33	196.92	1085.92	6.00	87.12	201.05	1090.05	0.00
873.0	65	93.37	215.47	1088.47	6.00	94.06	217.07	1090.07	0.00
905.0	66	99.68	230.04	1135.04	30.75	111.58	257.49	1162.49	2.75
992.0	67	63.16	145.76	1137.76	31.75	77.36	178.53	1170.53	2.75
955.0	68	79.19	182.75	1137.75	31.75	92.18	212.72	1167.72	2.75
955.0	69	79.39	183.21	1138.21	31.75	79.73	184.00	1139.00	0.00
940.0	70	84.90	195.93	1135.93	30.75	99.04	228.56	1168.56	2.75
935.0	71	86.98	200.72	1135.72	30.75	100.60	232.15	1167.15	2.75
950.0	72	80.36	185.46	1135.46	30.75	94.61	218.34	1168.34	2.75
930.0	73	88.86	205.05	1135.05	30.75	103.14	238.01	1168.01	2.75
940.0	74	84.55	195.13	1135.13	30.75	98.84	228.09	1168.09	2.75
940.0	75	84.47	194.93	1134.93	30.75	98.65	227.65	1167.65	2.75
980.0	76	67.54	155.87	1135.87	30.75	81.15	187.28	1167.28	2.75
970.0	77	71.49	164.98	1134.98	30.75	85.49	197.27	1167.27	2.75
928.0	78	87.03	200.85	1128.85	30.75	103.67	239.25	1167.25	2.75
915.0	79	92.58	213.64	1128.64	30.75	109.31	252.25	1167.25	2.75
947.0	80	81.28	187.56	1134.56	30.75	93.89	216.66	1163.66	2.75
965.0	81	74.94	172.94	1137.94	31.75	91.73	211.69	1176.69	2.75
922.0	82	71.13	164.16	1086.16	6.00	72.82	168.05	1090.05	0.00
913.0	83	74.99	173.06	1086.06	6.00	76.72	177.05	1090.05	0.00
950.0	84	81.43	187.92	1137.92	31.75	98.93	228.31	1178.31	2.75
970.0	85	72.77	167.93	1137.93	31.75	90.01	207.72	1177.72	2.75
935.0	86	87.32	201.52	1136.52	30.75	100.68	232.34	1167.34	2.75
990.0	87	64.09	147.90	1137.90	31.75	79.95	184.50	1174.50	2.75

995.0	88	61.95	142.97	1137.97	31.75	77.91	179.80	1174.80	2.75
5.001005.0	89	58.43	134.84	1139.84	44.25	66.40	153.23	1158.23	
970.0	90	72.70	167.77	1137.77	31.75	85.42	197.12	1167.12	2.75
950.0	91	58.92	135.97	1085.97	6.00	60.69	140.05	1090.05	0.00
965.0	92	74.94	172.94	1137.94	31.75	91.71	211.64	1176.64	2.75
952.0	93	58.05	133.97	1085.97	6.00	59.82	138.05	1090.05	0.00
963.0	94	74.92	172.90	1135.90	30.75	88.48	204.17	1167.17	2.75
990.0	95	63.23	145.91	1135.91	30.75	76.81	177.25	1167.25	2.75
4.751033.0	96	46.28	106.80	1139.80	44.25	54.07	124.78	1157.78	
958.0	97	77.70	179.31	1137.31	30.75	92.13	212.61	1170.61	2.75
2.751010.0	98	55.42	127.90	1137.90	31.75	72.89	168.21	1178.21	
2.751010.0	99	55.42	127.88	1137.88	31.75	73.11	168.72	1178.72	
2.751020.0	100	51.08	117.89	1137.89	31.75	68.67	158.47	1178.47	
990.0	101	64.07	147.85	1137.85	31.75	83.10	191.77	1181.77	2.75
975.0	102	70.57	162.85	1137.85	31.75	90.28	208.34	1183.34	2.75
965.0	103	74.90	172.86	1137.86	31.75	93.90	216.69	1181.69	2.75
2.751003.0	104	58.48	134.94	1137.94	31.75	74.48	171.87	1174.87	
2.751016.0	105	52.85	121.95	1137.95	31.75	68.86	158.91	1174.91	
990.0	106	64.13	147.98	1137.98	31.75	80.30	185.31	1175.31	2.75
950.0	107	81.41	187.87	1137.87	31.75	104.34	240.79	1190.79	2.75
972.0	108	71.95	166.03	1138.03	43.75	87.92	202.89	1174.89	2.75
895.0	109	103.95	239.89	1134.89	30.75	115.92	267.51	1162.51	2.75
905.0	110	99.62	229.89	1134.89	30.75	111.59	257.52	1162.52	2.75
922.0	111	92.28	212.96	1134.96	30.75	104.23	240.53	1162.53	2.75
931.0	112	88.40	204.00	1135.00	30.75	100.33	231.53	1162.53	2.75
935.0	113	86.69	200.05	1135.05	30.75	98.61	227.56	1162.56	2.75
948.0	114	81.03	186.99	1134.99	30.75	92.98	214.57	1162.57	2.75
950.0	115	81.16	187.29	1137.29	42.75	89.91	207.49	1157.49	4.75

885.0	144	87.05	200.88	1085.88	6.00	88.86	205.05	1090.05	0.00
960.0	145	77.04	177.79	1137.79	31.75	98.67	227.71	1187.71	2.75
935.0	146	87.87	202.78	1137.78	31.75	109.51	252.71	1187.71	2.75
940.0	147	85.70	197.78	1137.78	31.75	107.34	247.71	1187.71	2.75
950.0	148	81.37	187.78	1137.78	31.75	103.01	237.71	1187.71	2.75
940.0	149	64.54	148.94	1088.94	6.00	65.03	150.06	1090.06	0.00
925.0	150	69.79	161.06	1086.06	6.00	71.52	165.05	1090.05	0.00
901.0	151	80.20	185.07	1086.07	6.00	81.92	189.05	1090.05	0.00
927.0	152	69.99	161.52	1088.52	6.00	70.66	163.06	1090.06	0.00
927.0	153	70.00	161.55	1088.55	6.00	70.66	163.06	1090.06	0.00
950.0	154	80.36	185.45	1135.45	30.75	94.61	218.34	1168.34	2.75
970.0	155	72.44	167.18	1137.18	42.75	81.25	187.49	1157.49	4.75
898.0	156	102.73	237.07	1135.07	30.75	114.65	264.58	1162.58	2.75
840.0	157	106.55	245.89	1085.89	6.00	108.36	250.05	1090.05	0.00
2.751000.0	158	59.78	137.96	1137.96	31.75	75.42	174.05	1174.05	
940.0	159	84.46	194.90	1134.90	30.75	98.65	227.65	1167.65	2.75
941.0	160	82.60	190.61	1131.61	30.75	98.05	226.26	1167.26	2.75
905.0	161	96.99	223.82	1128.82	30.75	113.64	262.25	1167.25	2.75
975.0	162	70.49	162.68	1137.68	31.75	83.39	192.45	1167.45	2.75
960.0	163	76.98	177.65	1137.65	31.75	89.93	207.53	1167.53	2.75
958.0	164	77.83	179.61	1137.61	30.75	90.80	209.53	1167.53	2.75
972.0	165	71.87	165.85	1137.85	31.75	83.83	193.45	1165.45	2.75
990.0	166	64.87	149.70	1139.70	44.25	72.26	166.74	1156.74	4.75
995.0	167	63.64	146.86	1141.86	44.25	69.29	159.90	1154.90	59.00
880.0	168	90.76	209.46	1089.46	6.00	91.03	210.07	1090.07	0.00
880.0	169	90.73	209.38	1089.38	6.00	91.03	210.07	1090.07	0.00
890.0	170	105.79	244.14	1134.14	30.75	118.09	272.51	1162.51	2.75
890.0	171	105.85	244.26	1134.26	30.75	118.09	272.51	1162.51	2.75

970.0	200	51.98	119.96	1089.96	6.00	52.03	120.07	1090.07	0.00
875.0	201	93.17	215.01	1090.01	6.00	93.20	215.08	1090.08	0.00
980.0	202	68.44	157.94	1137.94	31.75	84.14	194.17	1174.17	2.75
870.0	203	93.58	215.95	1085.95	6.00	95.36	220.05	1090.05	0.00
850.0	204	102.26	235.97	1085.97	6.00	104.02	240.05	1090.05	0.00
850.0	205	102.25	235.95	1085.95	6.00	104.02	240.05	1090.05	0.00
840.0	206	106.58	245.95	1085.95	6.00	108.36	250.05	1090.05	0.00
980.0	207	68.87	158.93	1138.93	43.75	78.85	181.95	1161.95	3.75
990.0	208	64.08	147.87	1137.87	31.75	88.91	205.17	1195.17	2.75
990.0	209	52.73	121.68	1111.68	44.25	74.92	172.89	1162.89	57.00
960.0	210	77.14	178.01	1138.01	43.75	93.30	215.30	1175.30	2.75
3.751010.0	211	55.86	128.91	1138.91	43.75	66.39	153.20	1163.20	
960.0	212	77.53	178.91	1138.91	43.75	88.61	204.48	1164.48	2.75
860.0	213	97.96	226.07	1086.07	6.00	99.69	230.05	1090.05	0.00
919.0	214	72.41	167.10	1086.10	6.00	74.12	171.05	1090.05	0.00
910.0	215	76.30	176.09	1086.09	6.00	78.02	180.05	1090.05	0.00
935.0	216	66.98	154.56	1089.56	6.00	67.20	155.07	1090.07	0.00
960.0	217	56.24	129.78	1089.78	6.00	56.36	130.07	1090.07	0.00
920.0	218	73.53	169.68	1089.68	6.00	73.70	170.07	1090.07	0.00
980.0	219	68.70	158.53	1138.53	43.75	79.25	182.89	1162.89	3.75
970.0	220	72.88	168.18	1138.18	43.75	84.07	194.00	1164.00	2.75
976.0	221	70.28	162.18	1138.18	43.75	81.47	188.00	1164.00	2.75
985.0	222	66.27	152.93	1137.93	31.75	82.32	189.97	1174.97	2.75
975.0	223	70.60	162.93	1137.93	31.75	86.76	200.21	1175.21	2.75
980.0	224	68.44	157.93	1137.93	31.75	84.73	195.52	1175.52	2.75
920.0	225	71.93	165.98	1085.98	6.00	73.69	170.05	1090.05	0.00
885.0	226	87.08	200.95	1085.95	6.00	88.86	205.05	1090.05	0.00
890.0	227	84.93	195.99	1085.99	6.00	86.69	200.05	1090.05	0.00

921.0	228	73.11	168.71	1089.71	6.00	73.26	169.07	1090.07	0.00
870.0	229	93.60	215.99	1085.99	6.00	95.36	220.05	1090.05	0.00
875.0	230	91.65	211.51	1086.51	6.00	93.19	215.06	1090.06	0.00
905.0	231	80.08	184.81	1089.81	6.00	80.20	185.07	1090.07	0.00
871.0	232	93.03	214.69	1085.69	6.00	94.92	219.05	1090.05	0.00
940.0	233	63.13	145.69	1085.69	6.00	65.02	150.05	1090.05	0.00
950.0	234	82.06	189.37	1139.37	44.25	90.02	207.75	1157.75	4.75
945.0	235	82.41	190.17	1135.17	30.75	96.69	223.12	1168.12	2.75
935.0	236	86.73	200.15	1135.15	30.75	101.01	233.11	1168.11	2.75
965.0	237	74.76	172.53	1137.53	30.75	89.79	207.21	1172.21	2.75
2.751030.0	238	46.71	107.78	1137.78	31.75	68.34	157.71	1187.71	
960.0	239	77.08	177.88	1137.88	31.75	97.77	225.62	1185.62	2.75
975.0	240	70.57	162.85	1137.85	31.75	90.88	209.71	1184.71	2.75
980.0	241	68.97	159.17	1139.17	43.75	76.85	177.35	1157.35	4.75
930.0	242	90.75	209.42	1139.42	44.25	98.51	227.33	1157.33	4.75
980.0	243	69.17	159.62	1139.62	44.25	76.67	176.94	1156.94	4.75
950.0	244	77.43	178.68	1128.68	30.75	94.14	217.25	1167.25	2.75
930.0	245	90.71	209.32	1139.32	44.25	98.51	227.34	1157.34	4.75
2.751002.0	248	58.84	135.78	1137.78	31.75	80.47	185.71	1187.71	
3.751000.0	250	60.20	138.91	1138.91	43.75	70.33	162.31	1162.31	
980.0	251	68.69	158.53	1138.53	43.75	79.26	182.91	1162.91	3.75
4.751020.0	252	51.68	119.27	1139.27	44.25	61.33	141.52	1161.52	
5.001020.0	253	51.91	119.78	1139.78	44.25	59.84	138.10	1158.10	
989.0	254	64.50	148.85	1137.85	31.75	79.99	184.59	1173.59	2.75
984.0	255	66.66	153.83	1137.83	31.75	82.01	189.26	1173.26	2.75
980.0	256	68.39	157.83	1137.83	31.75	83.74	193.25	1173.25	2.75
980.0	257	68.40	157.85	1137.85	31.75	83.89	193.60	1173.60	2.75
2.751003.0	258	58.43	134.85	1137.85	31.75	73.93	170.61	1173.61	

970.0	259	72.74	167.85	1137.85	31.75	88.23	203.62	1173.62	2.75
970.0	260	72.74	167.85	1137.85	31.75	88.24	203.62	1173.62	2.75
935.0	261	87.89	202.82	1137.82	31.75	103.06	237.84	1172.84	2.75
935.0	262	67.04	154.71	1089.71	6.00	67.20	155.07	1090.07	0.00
930.0	263	69.22	159.74	1089.74	6.00	69.36	160.07	1090.07	0.00
935.0	264	67.04	154.72	1089.72	6.00	67.20	155.07	1090.07	0.00
895.0	265	84.45	194.90	1089.90	6.00	84.53	195.07	1090.07	0.00
950.0	266	81.35	187.73	1137.73	30.75	97.05	223.97	1173.97	2.75
855.0	267	101.69	234.67	1089.67	6.00	101.87	235.07	1090.07	0.00
825.0	268	114.56	264.37	1089.37	6.00	114.86	265.07	1090.07	0.00
855.0	269	101.58	234.42	1089.42	6.00	101.86	235.07	1090.07	0.00
900.0	270	82.09	189.44	1089.44	6.00	82.36	190.07	1090.07	0.00
880.0	271	90.76	209.45	1089.45	6.00	91.03	210.07	1090.07	0.00
855.0	272	101.62	234.52	1089.52	6.00	101.86	235.07	1090.07	0.00
940.0	273	85.65	197.65	1137.65	30.75	100.92	232.90	1172.90	2.75
946.0	274	83.09	191.75	1137.75	31.75	98.41	227.10	1173.10	2.75
953.0	275	80.06	184.75	1137.75	31.75	95.38	220.10	1173.10	2.75
820.0	276	116.78	269.49	1089.49	6.00	117.03	270.07	1090.07	0.00
863.0	277	96.69	223.12	1086.12	6.00	98.39	227.05	1090.05	0.00
835.0	278	108.78	251.04	1086.04	6.00	110.52	255.05	1090.05	0.00
820.0	279	115.27	266.00	1086.00	6.00	117.02	270.05	1090.05	0.00
830.0	280	110.95	256.03	1086.03	6.00	112.69	260.05	1090.05	0.00
830.0	281	110.95	256.03	1086.03	6.00	112.69	260.05	1090.05	0.00
920.0	282	71.96	166.06	1086.06	6.00	73.69	170.05	1090.05	0.00
880.0	283	89.27	206.00	1086.00	6.00	91.02	210.05	1090.05	0.00
940.0	284	64.53	148.92	1088.92	6.00	65.03	150.06	1090.06	0.00
940.0	285	64.54	148.93	1088.93	6.00	65.03	150.06	1090.06	0.00
950.0	286	60.26	139.06	1089.06	6.00	60.69	140.06	1090.06	0.00

960.0	287	55.93	129.06	1089.06	6.00	56.36	130.06	1090.06	0.00
925.0	288	71.33	164.60	1089.60	6.00	71.53	165.07	1090.07	0.00
875.0	289	92.77	214.07	1089.07	6.00	93.20	215.07	1090.07	0.00
59.001020.0	290	52.72	121.66	1141.66	44.25	58.46	134.91	1154.91	
59.001016.0	291	54.55	125.89	1141.89	44.25	60.19	138.91	1154.91	
915.0	292	75.70	174.69	1089.69	6.00	75.86	175.07	1090.07	0.00
940.0	293	64.87	149.69	1089.69	6.00	65.03	150.07	1090.07	0.00
900.0	294	82.19	189.68	1089.68	6.00	82.36	190.07	1090.07	0.00
953.0	295	59.24	136.70	1089.70	6.00	59.40	137.07	1090.07	0.00
950.0	296	81.35	187.73	1137.73	30.75	97.05	223.97	1173.97	2.75
905.0	297	80.04	184.71	1089.71	6.00	80.20	185.07	1090.07	0.00
990.0	298	64.01	147.72	1137.72	30.75	79.66	183.82	1173.82	2.75
955.0	299	79.19	182.74	1137.74	31.75	94.92	219.04	1174.04	2.75
2.751007.0	300	56.71	130.88	1137.88	31.75	72.67	167.70	1174.70	
986.0	301	65.74	151.71	1137.71	30.75	81.37	187.78	1173.78	2.75
950.0	302	81.39	187.82	1137.82	31.75	102.77	237.15	1187.15	2.75
950.0	303	81.39	187.82	1137.82	31.75	102.49	236.52	1186.52	2.75
975.0	304	70.56	162.84	1137.84	31.75	90.90	209.76	1184.76	2.75
976.0	305	70.12	161.82	1137.82	31.75	90.86	209.69	1185.69	2.75
980.0	306	68.39	157.82	1137.82	31.75	89.44	206.40	1186.40	2.75
950.0	307	81.39	187.82	1137.82	31.75	102.08	235.57	1185.57	2.75
975.0	308	70.55	162.82	1137.82	31.75	91.63	211.45	1186.45	2.75
950.0	309	81.39	187.82	1137.82	31.75	102.38	236.27	1186.27	2.75
840.0	310	106.59	245.97	1085.97	6.00	108.36	250.05	1090.05	0.00
960.0	311	77.06	177.82	1137.82	31.75	92.29	212.97	1172.97	2.75
895.0	312	103.92	239.81	1134.81	30.75	115.92	267.51	1162.51	2.75
910.0	313	97.45	224.87	1134.87	30.75	109.42	252.51	1162.51	2.75
950.0	314	81.43	187.90	1137.90	43.75	92.97	214.55	1164.55	2.75

923.0	315	91.86	211.98	1134.98	30.75	103.85	239.64	1162.64	2.75
911.0	316	97.12	224.13	1135.13	30.75	109.05	251.65	1162.65	2.75
857.0	317	99.21	228.95	1085.95	6.00	100.99	233.05	1090.05	0.00
810.0	318	119.58	275.95	1085.95	6.00	121.36	280.05	1090.05	0.00
930.0	319	88.83	204.99	1134.99	30.75	100.77	232.54	1162.54	2.75
915.0	320	95.30	219.93	1134.93	30.75	107.26	247.52	1162.52	2.75
920.0	321	71.80	165.69	1085.69	6.00	73.69	170.05	1090.05	0.00
745.0	322	147.63	340.69	1085.69	6.00	149.52	345.05	1090.05	0.00
810.0	323	119.47	275.71	1085.71	6.00	121.36	280.05	1090.05	0.00
850.0	324	102.13	235.69	1085.69	6.00	104.02	240.05	1090.05	0.00
920.0	325	72.18	166.58	1086.58	6.00	73.69	170.06	1090.06	0.00
930.0	326	89.82	207.28	1137.28	42.75	98.56	227.45	1157.45	4.75
870.0	327	93.49	215.74	1085.74	6.00	95.36	220.05	1090.05	0.00
895.0	328	103.97	239.93	1134.93	30.75	115.92	267.51	1162.51	2.75
970.0	329	72.45	167.20	1137.20	42.75	81.25	187.49	1157.49	4.75
950.0	330	82.06	189.37	1139.37	44.25	90.02	207.75	1157.75	4.75
958.0	331	77.75	179.42	1137.42	42.75	86.71	200.09	1158.09	4.75
985.0	332	66.95	154.49	1139.49	44.25	74.96	172.98	1157.98	4.75
998.0	333	61.84	142.71	1140.71	44.25	68.94	159.08	1157.08	4.75
980.0	334	69.03	159.31	1139.31	44.25	79.12	182.58	1162.58	3.75
4.751000.0	338	61.19	141.20	1141.20	44.25	67.31	155.32	1155.32	
4.751000.0	339	61.22	141.28	1141.28	44.25	67.24	155.17	1155.17	
5.001032.0	O-AV-1	47.27	109.09	1141.09	44.25	53.43	123.31	1155.31	
955.0	FGN-BB	79.73	184.00	1139.00	0.00	79.73	184.00	1139.00	0.00
990.0	I-Pump-1	52.63	121.46	1111.46	44.25	74.92	172.89	1162.89	57.00
990.0	I-Pump-2	52.73	121.68	1111.68	44.25	74.92	172.89	1162.89	57.00
985.0	R-1	55.03	127.00	1112.00	19.00	77.13	178.00	1163.00	9.00
920.0	I-RV-1	92.84	214.24	1134.24	30.75	105.37	243.15	1163.15	2.75

I-RV-2	106.02	244.67	1134.67	42.75	115.69	266.97	1156.97	4.75
890.0								
I-RV-R1	112.08	258.65	1133.65	30.75	124.58	287.50	1162.50	2.75
875.0								
I-RV-R2	72.44	167.18	1137.18	42.75	81.25	187.49	1157.49	4.75
970.0								
TANK-A	49.87	115.09	1141.09	44.25	56.03	129.29	1155.29	
5.001026.0								
TANK-B	54.10	124.86	1139.86	44.25	62.07	143.23	1158.23	
5.001015.0								
TANK-C	50.70	116.99	1141.99	44.25	56.29	129.91	1154.91	
59.001025.0								
O-Pump-1	64.08	147.87	1137.87	31.75	89.10	205.61	1195.61	2.75
990.0								
O-Pump-2	64.08	147.87	1137.87	31.75	88.91	205.17	1195.17	2.75
990.0								
I-AV-1	47.27	109.09	1141.09	44.25	53.51	123.49	1155.49	
4.751032.0								
O-RV-R1	93.20	215.08	1090.08	0.00	93.20	215.08	1090.08	0.00
875.0								
O-RV-R2	52.00	120.00	1090.00	4.00	52.03	120.07	1090.07	0.00
970.0								
O-RV-1	73.60	169.85	1089.85	5.00	73.70	170.07	1090.07	0.00
920.0								
O-RV-2	86.70	200.08	1090.08	0.00	86.70	200.08	1090.08	0.00
890.0								

***** HYDRAULIC ANALYSIS COMPLETED *****