

NODE	GROUND ELEV	FLOW	HCL ELEV	HEAD MTRS	PRESSURE	
					KG/SCM	CK PCT DROP
548	40.0	4.75	86.04J	40.04	4.00	-48.25
549	41.0	6.14	73.04U	32.04	3.20	-C.14
551	32.0	11.27	55.22U	23.22	2.32	42.36 HI
552	50.0	9.29	66.53U	16.53	1.65	28.14 HI
553	50.0	9.06	70.45U	20.45	2.05	11.08 HI
600	52.0	17.64	79.99U	27.99	2.80	-33.31
601	54.0	14.12	81.17U	27.17	2.72	-43.02
602	60.0	19.91	53.39U	33.39	3.24	-156.83
603	52.0	11.55	89.08U	37.08	3.71	-76.55
607	52.0	11.55	88.33U	36.33	3.63	-72.98
605	50.0	0.0	54.83U	4.83	0.48	79.02 HI
610	45.0	0.0	53.29U	8.29	0.83	70.39 HI
616	41.0	0.0	52.72U	13.73	1.17	63.35 HI
620	38.0	-373.99	97.37U	59.37	5.94	-65.61
621	42.0	21.08	56.64U	54.64	5.46	-76.26
622	46.0	22.72	55.55U	45.55	4.96	-83.52
623	47.0	23.08	93.11U	46.11	4.61	-77.35
624	40.0	17.31	71.49U	31.49	3.15	4.57 HI
625	36.0	6.70	69.00U	33.00	3.30	10.81 HI
626	35.0	6.70	76.61U	46.61	4.66	-8.40
627	38.0	20.75	95.46U	57.46	5.75	-64.17
628	38.0	0.0	57.05U	59.05	5.90	-68.71
630	38.0	0.0	52.24U	14.24	1.42	59.31 HI
631	23.0	3.08	49.34U	29.34	2.93	44.64 HI
632	23.0	7.52	50.25U	27.25	2.73	45.49 HI
633	26.0	22.84	89.75U	43.75	6.38	-35.64
634	34.0	17.95	89.11U	35.11	3.51	-84.77
635	20.0	4.48	46.57U	26.57	2.66	55.87 HI
636	21.0	7.52	46.88U	25.88	2.59	50.23 HI
641	33.0	14.12	85.92U	32.92	3.29	-64.58
642	52.0	10.45	80.22U	28.22	2.82	-34.38
644	33.0	5.77	71.79U	38.79	3.88	33.02 HI
645	42.0	4.43	69.72U	47.72	4.77	156.43 HI
700	59.0	29.91	95.46U	36.46	3.65	-160.46
701	32.0	9.12	89.57U	57.57	5.76	-46.42
702	38.0	5.62	89.15U	51.15	5.11	-46.14
703	46.0	0.0	89.52U	43.52	4.35	-61.17
704	40.0	34.35	95.74U	55.74	5.57	-88.92
705	17.0	6.09	43.21U	26.21	2.62	53.19 HI
708	18.0	3.72	40.64U	22.64	2.26	58.84 HI
711	11.0	5.27	40.07U	29.07	2.91	53.11 HI
712	45.0	7.17	95.14U	46.14	4.61	-92.26
713	12.0	4.20	39.18U	27.18	2.72	55.45 HI
714	48.0	9.45	54.73U	46.73	4.67	-86.90
716	48.0	9.66	94.60U	46.60	4.66	-86.41
717	51.0	4.43	94.62U	43.62	4.36	-98.27
718	50.0	0.0	94.62U	44.62	4.46	-94.00
719	30.0	3.01	46.93U	16.93	1.69	60.63 HI
720	50.0	0.0	94.77U	44.77	4.48	-94.66
721	15.0	3.01	47.12U	32.12	3.21	44.62 HI

54 BELLOWS 2,3,4,5,6 (2015 PEAK HOUR - CASE 1)

NODE	GROUND ELEV	FLOW	HGL ELEV	HEAD MTRS	PRESSURE	
					KG/SCM	PCT DROP
722	51.0	4.65	54.080	43.08	4.37	-98.54
724	50.0	10.48	54.560	44.56	4.46	-93.72
725	14.0	3.15	30.670	24.67	2.47	58.19 HI
726	16.0	6.26	40.200	24.20	2.42	57.55 HI
727	35.0	15.70	51.900	55.80	5.58	-50.80
728	22.0	12.55	80.200	67.20	6.72	-31.76
729	15.0	0.0	47.460	32.46	3.25	44.03 HI
730	38.0	9.85	93.770	55.77	5.58	-59.36
732	30.0	3.01	52.380	62.38	6.24	-45.07
734	20.0	8.36	93.650	73.65	7.37	-35.03
736	20.0	0.0	42.570	22.57	2.26	57.42 HI
738	26.0	7.07	40.880	20.88	2.09	60.61 HI
740	50.0	5.18	96.250	46.25	4.62	-101.08
741	50.0	10.88	98.930	48.93	4.85	-112.75
742	20.0	4.15	38.680	18.48	1.85	65.13 HI
745	40.0	216.75	59.410	59.41	5.94	-80.02
746	32.0	14.65	51.340	59.34	5.93	-44.73
747	42.0	19.51	56.560	54.56	5.50	-77.28
748	50.0	3.50	95.830	45.83	4.58	-99.26
800	28.0	11.11	80.510	52.91	5.29	-17.57
802	16.0	3.97	79.750	63.75	4.38	-18.35
804	19.0	5.78	79.040	60.04	6.00	-11.19
805	32.0	5.50	78.370	48.37	4.84	-13.10
806	36.0	8.26	77.230	41.23	4.12	-11.44
807	18.0	19.25	70.810	52.81	5.28	3.98
808	18.0	27.28	73.950	55.95	5.59	-1.72
809	22.0	11.51	74.780	52.70	5.27	-3.34
810	24.0	11.15	77.250	53.25	5.32	-8.67
811	32.0	5.90	75.940	43.94	4.39	-7.16
812	30.0	5.90	78.790	40.75	4.88	-13.46
813	32.0	5.69	80.030	48.03	4.80	-17.15
814	40.0	4.71	79.650	35.65	3.96	-20.15
815	40.0	2.62	79.820	39.82	3.98	-20.67
816	40.0	49.96	46.640	8.64	6.66	79.88
818	16.0	0.0	46.760	30.76	3.08	46.03
820	14.0	3.97	46.180	22.16	2.22	45.49
822	24.0	11.76	77.130	53.13	5.31	-8.43
824	22.0	5.82	77.060	55.06	5.51	-7.96
826	28.0	3.48	75.010	47.01	4.70	-4.46
828	20.0	7.89	77.050	57.05	5.70	-7.64
830	20.0	13.32	77.040	57.04	5.70	-7.63
904	15.0	5.48	42.900	23.93	2.39	55.73
906	18.0	23.64	53.980	35.98	3.60	34.58
907	22.0	23.64	55.670	33.67	3.37	33.59
908	19.0	12.42	53.760	34.70	3.47	35.75
909	20.0	5.62	53.160	33.16	3.32	37.43
910	15.0	35.78	53.590	34.55	3.50	35.20
912	23.0	5.62	53.020	33.02	3.30	37.70
914	20.0	23.64	52.580	32.58	3.26	38.53
916	25.0	48.30	37.340	17.34	1.73	67.28

NODE	GROUND ELEV	FLC	HGL ELEV	HEAD MTRS	KG/5CM	PRESSURE	
						CK	PC1 DROP
1002	22.0	16.37	50.70U	28.70	2.37	43.74	MI
1004	13.0	22.05	46.45U	33.65	3.37	43.51	MI
1006	14.0	11.44	48.65U	34.45	3.45	41.61	MI
1008	14.0	11.50	48.82U	34.52	3.45	41.69	MI
1016	14.0	11.50	47.88U	33.88	3.39	42.58	MI
1021	15.0	20.32	47.58U	32.58	2.26	43.83	MI
1216	13.0	0.0	38.77U	25.77	2.58	57.05	MI
2043	13.0	-76.00	63.16U	50.16	5.02	16.40	MI
2081	18.0	29.03	29.23U	11.25	1.12	79.64	MI
2082	14.0	24.50	30.50U	16.50	1.65	72.03	MI
4745	40.0	137.01	46.40U	6.40	0.64	80.61	MI
4746	14.0	0.0	46.85U	32.85	2.28	44.33	MI
5264	13.0	0.0	38.25U	25.25	2.53	57.25	MI
5902	45.0	0.0	58.31U	13.11	1.31	52.17	MI
5618	41.0	224.00	52.47U	11.47	1.15	64.15	MI
5619	40.0	0.0	52.43U	12.43	1.26	61.73	MI
5711	14.0	0.0	49.33U	26.33	2.63	55.37	MI
5800	28.0	-31.64	80.55U	52.59	5.30	-17.75	MI
5804	18.0	0.0	36.70U	18.70	1.87	66.00	MI
6000	12.0	0.0	49.83U	37.83	3.78	37.99	MI
6015	32.0	0.0	91.26U	59.26	5.93	-44.54	MI
6030	15.0	0.0	47.35U	32.55	3.26	42.81	MI
6085	05.0	424.78U	65.00	-0.00	-0.00	100.00	LO
6090	60.5	0.0	66.83U	6.83	0.63	49.38	MI
6110	18.0	0.0	47.42U	29.42	2.94	46.51	MI
6115	16.0	0.0	46.76U	30.76	3.08	46.03	MI
6120	12.0	0.0	44.85U	32.85	3.29	46.08	MI
6122	20.0	0.0	48.56U	28.94	2.89	45.39	MI
6150	11.0	0.0	43.22U	32.22	3.22	48.02	MI
6182	24.0	0.0	40.00U	16.00	1.60	67.35	MI
6000	12.0	0.0	38.92U	26.92	2.69	55.86	MI
8001	12.0	0.0	41.65U	29.05	2.91	52.31	MI
8006	13.0	0.0	44.75U	31.75	3.18	47.02	MI
8007	48.0	0.0	97.36U	49.36	4.94	-97.45	MI
8008	49.0	0.0	96.16U	47.16	4.72	-96.50	MI
8246	13.0	0.0	35.55U	23.55	2.35	60.75	MI
8505	50.0	0.0	94.62U	44.62	4.46	-94.00	MI
8516	12.0	0.0	41.74U	29.74	2.97	51.25	MI

5% END OF SIMULATION INPUT

DATE 07/04/95 11:51:36 DURATION 00:16:43

EUJ CASE2

DATE 07/04/55,CLOCK 11/51/05

// JOB CASE2
// ASSGN SYS002,X*000*
// ASSGN SYS003,X*000*
// EXEC NETWORK

MARGEN DISTRIBUTION NETWORK SIMULATION
REPORT, MAXVEL 3.0, MINVEL 0.0, MAXPL 2.0, MINPL 0.5,
MAXPR 7.0, MINPR 0.0, MAXPC 0.60, STATMCL 73.0
CMULT 1.00, MAXIT 50, MAXERR 0.001, FERRNCL 500
PROATA, PRCEN, PRIN:
DATE 07/04/95
TITLE BLCCKS 2.3.4.56 (2015 PEAK FLUR - CASE 2)
HORIZON AVE04Y15
CARDS 5
RUN 5
ENC

CARD 1
CARD 2
CARD 3
CARD 4
CARD 5
CARD 6
CARD 7
CARD 8
CARD 9
CARD 10

07/04/95

BLOCKS 2, 3, 4, 5 (2015 PEAK HOUR - CASE 2)

SUGARCA CAFE

ID PIPE, VALVE, AND PUMP NUMBERS



07/04/95

BLOCKS 2,3,4,5&6 (2015 PEAK FLOW - CASE 2)

PIPE AND VALVE DATA

NUMBER	ACOE	NOCE	LENGTH	CIAM	M-W	COEF.
1	200	201	200	450.00	500	135
2	201	202	201	400.00	500	105
3	202	203	203	850.00	300	105
4	203	204	203	400.00	300	60
5	204	206	202	1100.00	500	105
6	206	208	206	280.00	500	110
7	208	210	208	500.00	900	110
8	209	211	210	350.00	900	110
9	210	208	214	326.00	500	105
10	212	214	226	340.00	500	105
11	213	211	212	250.00	900	110
12	214	216	222	730.00	200	65
13	216	228	230	520.00	300	65
14	217	218	216	972.00	900	110
15	218	218	220	263.00	900	105
16	220	217	219	500.00	300	120
17	220	217	218	500.00	450	130
18	222	224	217	1040.00	300	105
19	224	224	222	1590.00	400	60
20	7820	224	220	1590.00	2200	140
21	226	222	220	500.00	600	110
22	7821	222	220	500.00	2200	140
23	7822	220	236	1300.00	2200	140
24	228	223	220	1600.00	1350	105
25	230	220	238	730.00	1350	105
26	232	228	234	680.00	600	60
27	234	234	232	800.00	300	125
28	236	234	236	800.00	500	45
29	237	236	238	500.00	500	60
30	238	234	251	750.00	400	60
31	239	238	251	1450.00	500	60
32	240	253	252	900.00	600	120
33	5240	253	252	700.00	750	135
34	241	244	246	537.00	600	120
35	5241	244	246	537.00	750	135
36	242	238	240	250.00	750	110
37	243	238	243	300.00	1260	135
38	244	240	242	1450.00	750	110
39	245	244	253	700.00	600	120
40	5245	244	253	700.00	750	135
41	246	242	250	900.00	400	75
42	248	250	248	750.00	400	75
43	250	246	248	1356.00	600	105
44	252	246	254	750.00	600	90
45	253	808	271	950.00	300	65
46	254	252	258	1075.00	600	120
47	5254	252	258	1075.00	600	120
48	255	251	255	1000.00	400	65
49	256	254	257	750.00	600	90
50	257	268	273	1050.00	300	65

AHSOP PP 5
MPLAN PIPE }
MPLAN PIPE } 84C 5
MPLAN PIPE }

AHSOP PP 5
AHSOP PP 5
AHSOP PP 5
AHSOP PP 5

06

ULUCAS 2,3,4,5,6,7 (2015 PEAK FLOW - CASE 2)
 PIPE AND VALVE DATA

NUMBER	NODE	ANCE	LENGTH	DIAM.	MAN	COEF.
51	611	293	273	1350.00	300	✓
52	299	248	262	850.00	400	55
53	202	800	802	300.00	600	105
54	804	800	804	700.00	500	110
55	806	802	804	400.00	600	105
56	807	804	805	650.00	715	123
57	808	805	806	480.00	718	128
58	811	806	809	663.00	300	55
59	811	806	809	663.00	600	✓
60	812	809	808	300.00	300	55
61	5912	909	808	300.00	600	✓
62	814	806	810	850.00	715	123
63	816	810	268	800.00	300	✓
64	4119	810	268	800.00	300	✓
65	819	810	822	300.00	1313	108
66	822	822	824	150.00	1104	129
67	1208	216	230	590.00	2200	130
68	1210	230	236	750.00	2200	130
69	1212	236	256	1600.00	2200	130
70	1216	216	216	110.00	900	115
71	1218	256	260	1100.00	2200	130
72	1220	260	262	500.00	600	120
73	1221	262	263	400.00	400	120
74	1250	249	8316	700.00	600	120
75	1252	247	249	2200.00	600	120
76	1254	736	247	1000.00	750	125
77	1260	226	232	1900.00	1032	120
78	1801	268	837	430.00	400	120
79	1803	807	809	520.00	500	120
80	1805	809	811	350.00	600	120
81	1809	805	811	520.00	600	120
82	1811	800	813	500.00	750	130
83	8811	800	813	500.00	750	✓
84	1813	813	805	1150.00	750	130
85	5813	813	805	1150.00	750	✓
86	1814	812	805	700.00	1200	125
87	1816	814	812	1295.00	1200	125
88	1818	815	816	233.00	1200	125
89	1821	736	733	226.00	900	125
90	1822	820	736	1187.00	1050	125
91	1824	6115	820	1074.00	1500	125
92	2002	203	0501	330.00	300	125
93	2000	230	5060	800.00	200	125
94	2001	800	220	250.00	400	125
95	2003	200	8001	900.00	2200	135
96	2043	2043	244	176.00	1171	132
97	4122	2043	244	176.00	500	✓
98	4236	238	3246	689.00	600	125
99	4246	256	238	250.00	2200	135
100	4800	5800	000	29.00	750	125

AMSUP PP ←
 AMSOP PP 4
 AMSOP PP 4
 AMSOP PP 4

AMSUP PP 4
 AMSOP PP 4
 REROUTED (GUNGUA ST)

07/04/95

BLOCKS 2,3,4,5,6 (2019 P&M P&C - CASE 2)

PIPE AND VALVE DATA

NUMBER	ACDE	NOCE	LENGTH	DIAM	F-W	COEF.
101	9800	5800	800	29.00	900	135
102	7010	805	810	1280.00	1200	135
103	5000	8001	6182	1250.00	2200	130
104	5061	6182	216	1500.00	2200	135
105	5	530	176	800.00	400	65
106	6	113	154	800.00	400	60
107	7	114	153	1200.00	400	105
108	8	116	152	1100.00	400	105
109	10	166	13	1550.00	646	55
110	11	18	165	475.00	200	60
111	12	20	164	1000.00	600	105
112	13	23	157	550.00	2860	128
113	15	32	169	650.00	564	115
114	16	193	192	700.00	300	65
115	17	35	193	470.00	400	65
116	18	137	171	350.00	300	100
117	19	136	170	750.00	300	120
118	20	70	41	300.00	400	105
119	21	66	173	480.00	300	115
120	22	65	172	1050.00	400	120
121	23	65	180	400.00	400	100
122	24	181	70	1080.00	400	105
123	25	47	174	620.00	300	65
124	26	53	175	390.00	500	75
125	27	178	53	628.00	500	85
126	28	56	182	400.00	300	65
127	5029	56	182	400.00	400	130
128	30	64	184	400.00	1200	110
129	31	183	62	500.00	750	65
130	32	106	186	1050.00	1350	105
131	33	632	185	750.00	1500	105
132	34	112	632	250.00	1500	110
133	35	115	191	600.00	766	128
134	7805	115	191	600.00	2000	135
135	36	156	109	500.00	900	110
136	37	100	156	450.00	900	110
137	38	155	610	770.00	600	110
138	39	106	155	760.00	600	110
139	43	54	3	725.00	728	120
140	46	17	6	800.00	400	105
141	47	106	105	600.00	1050	70
142	48	59	25	240.00	1050	65
143	45	84	83	323.00	500	60
144	50	100	98	800.00	900	70
145	52	43	132	350.00	300	50
146	53	32	18	450.00	584	105
147	54	126	17	1400.00	750	65
148	58	123	124	112.00	750	80
149	59	123	18	120.00	750	80
150	62	40	122	130.00	750	80

AMSUP PP A

AMSUP PP 5

EXPLAN PIPE BUT 2

CALOCCAN P.S.
CALOCCAN P.S.
D. TUAZON P.S.

PIPE AND VALVE DATA

NUMBER	ACDE	NCE	LENGT	DIAM	P-W	QUEF.
151	67	82	133.00	500		105
152	68	35	600.00	500		105
153	72	58	50.00	1200		85
154	75	58	200.00	750		85
155	76	60	600.00	1050		85
156	75	51	700.00	400		60
157	62	100	300.00	650		60
158	82	107	1700.00	1200		70
159	64	94	370.00	400		60
160	06	107	1100.00	1522		75
161	87	105	350.00	1050		110
162	88	109	350.00	900		110
163	89	107	1400.00	900		110
164	4123	107	1400.00	600		120
165	50	54	600.00	750		70
166	51	51	1479.00	300		65
167	52	114	1300.00	350		75
168	53	191	800.00	766		118
169	7806	191	800.00	2000		135
170	7807	114	1040.00	2000		135
171	7808	28	1200.00	1000		135
172	54	116	510.00	772		130
173	7864	116	510.00	2000		135
174	95	631	631.00	1200		85
175	7823	631	631.00	1500		135
176	56	610	3000.00	1200		85
177	7824	610	3000.00	1500		135
178	157	185	1150.00	1500		105
179	160	89	320.00	300		60
180	101	51	755.00	728		120
181	102	82	589.00	500		105
182	103	101	600.00	1528		85
183	104	22	611.00	1050		85
184	105	37	217.00	1050		85
185	106	38	85.00	1050		85
186	107	36	697.00	1050		85
187	108	74	680.00	600		105
188	109	73	540.00	400		60
189	110	104	650.00	1528		75
190	111	43	880.00	300		50
191	112	43	430.00	300		85
192	113	33	500.00	300		105
193	114	39	40.00	1050		85
194	115	174	350.00	200		65
195	116	15	1200.00	500		60
196	117	5804	200.00	666		85
197	118	6000	1230.00	1050		85
198	119	47	580.00	300		105
199	120	164	800.00	600		105
200	121	166	360.00	400		105

ALGECIRAS P.S.

AWSUP PP 3

MPLAN PIPE
MPLAN PIPE
MPLAN PIPE
MPLAN PIPE

BUK 2

BUK 3

BUK 3

BLEBKS 2,3,4,5A (20:5 PEAK FLOW - CASE 2)

PIPE AND VALVE DATA

NUMBER	NODE	NGCE	LENGTH	DISM	F-W	COEF.
201	122	22	18	1271.00	10AC	85
202	123	59	58	2000.00	12CC	85
203	7812	59	119	2000.00	2200	140
204	7813	119	56	520.00	22CC	140
205	124	61	59	1000.00	1200	85
206	7011	61	59	1000.00	2200	140
207	125	63	64	760.00	1218	125
208	126	184	105	800.00	12CC	110
209	127	119	62	672.00	750	65
210	128	55	178	1000.00	6CC	85
211	130	67	68	200.00	3CC	60
212	131	81	80	325.00	600	105
213	132	101	224	910.00	500	60
214	135	165	15	462.00	3CC	60
215	136	169	35	670.00	584	120
216	137	35	136	680.00	300	105
217	138	22	147	600.00	2860	128
218	139	80	75	275.00	5CC	65
219	140	69	70	300.00	4CC	105
220	141	71	68	250.00	300	60
221	142	77	76	150.00	400	105
222	143	186	223	1000.00	1250	105
223	144	50	45	470.00	500	105
224	145	49	50	460.00	500	105
225	146	51	50	510.00	750	105
226	147	50	52	700.00	500	105
227	148	48	49	400.00	500	105
228	145	47	48	630.00	500	105
229	7817	47	48	630.00	1500	135
230	7818	56	100	1250.00	2200	140
231	7819	100	224	900.00	2200	140
232	150	47	46	600.00	500	105
233	151	42	46	380.00	652	100
234	152	33	42	729.00	800	105
235	153	48	52	300.00	300	100
236	7816	48	52	300.00	1500	135
237	154	52	53	354.00	500	80
238	155	53	72	767.00	500	80
239	156	67	175	1300.00	500	80
240	157	46	173	1300.00	626	125
241	158	66	65	713.00	500	100
242	159	59	63	604.00	1200	105
243	160	81	72	149.00	750	105
244	161	72	73	146.00	712	80
245	162	73	74	180.00	400	105
246	163	74	77	570.00	300	60
247	164	66	67	300.00	500	100
248	165	90	83	423.00	500	105
249	166	90	93	601.00	500	105
250	167	111	98	1200.00	900	70

MPLAN PIPE
MPLAN PIPE
MPLAN PIPE

BUC 5



PIPE AND VALVE DATA

NUMBER	ACCE	NGCE	LENGTH	CLASS	TYPE	COEF.
251	168	97	99	405.00	65C	60
252	165	99	57	500.00	30C	60
253	170	70	76	900.00	30C	60
254	171	94	182	700.00	20C	65
255	172	56	179	550.00	30C	65
256	7814	56	179	550.00	150C	135
257	7815	179	52	1100.00	150C	135
258	173	63	62	780.00	30C	50
259	174	57	54	654.00	1078	125
260	175	17	16	745.00	750	50
261	176	45	137	670.00	300	100
262	177	183	101	650.00	750	65
263	178	79	78	398.00	500	105
264	170	80	79	126.00	500	105
265	180	181	75	750.00	400	105
266	181	180	75	550.00	400	55
267	182	78	77	150.00	400	105
268	183	89	85	222.00	750	65
269	184	80	84	374.00	750	65
270	185	84	85	178.00	750	65
271	186	87	86	330.00	45C	60
272	187	83	87	159.00	400	105
273	185	92	89	184.00	750	65
274	190	90	91	212.00	300	60
275	151	91	88	279.00	550	60
276	182	94	92	719.00	750	60
277	153	93	91	532.00	550	60
278	154	100	94	1069.00	900	75
279	155	95	93	322.00	500	65
280	156	95	96	490.00	400	60
281	157	98	97	1261.00	600	60
282	198	78	86	130.00	400	55
283	155	88	87	230.00	450	60
284	247	157	242	1300.00	900	115
285	501	500	502	357.00	1800	110
286	502	500	504	18.00	2100	120
287	504	504	502	222.00	2100	120
288	505	502	506	120.00	2100	120
289	506	501	504	120.00	1525	105
290	117	501	506	120.00	2100	105
291	507	506	507	120.00	2100	105
292	508	506	508	350.00	1566	115
293	509	505	510	1015.00	1200	110
294	510	510	509	150.00	300	60
295	511	509	511	1620.00	200	60
296	512	509	511	1200.00	300	65
297	513	510	512	979.00	1200	110
298	514	511	513	1000.00	300	65
299	515	512	542	1600.00	1200	110
300	516	547	538	650.00	300	105

MPLAN PIPE | BUC 5
MPLAN PIPE

07/04/95

OLSON 2,3,4,5,6, (2015 PUCK FCJK - CASE 2)

PIPE AND VALVE DATA

NUMBER	NOCE	NOCE	LENGTH	DIAM	H-W	COEF.
301	517	514	538	1100.00	300	125
302	510	513	516	500.00	300	60
303	519	542	514	170.00	500	105
304	520	517	516	150.00	300	85
305	521	517	518	460.00	300	85
306	522	517	519	1033.00	500	110
307	523	519	518	280.00	300	85
308	524	517	520	700.00	300	115
309	525	520	521	500.00	300	115
310	526	549	522	650.00	300	90
311	527	523	544	775.00	300	105
312	528	543	523	775.00	300	105
313	529	525	524	595.00	627	125
314	530	519	525	1255.00	627	125
315	530	519	525	1255.00	600	130
316	540	526	552	450.00	300	75
317	541	542	517	115.00	1200	110
318	542	524	539	518.00	627	125
319	544	539	527	966.00	627	125
320	545	527	529	512.00	400	85
321	546	528	529	293.00	400	85
322	547	529	530	410.00	400	85
323	548	529	531	600.00	400	85
324	549	532	530	800.00	400	85
325	550	532	531	964.00	400	85
326	551	531	532	750.00	400	60
327	552	535	533	800.00	400	65
328	552	535	533	800.00	300	130
329	553	534	533	540.00	521	55
330	554	535	534	257.00	600	85
331	558	508	536	2290.00	2148	120
332	556	535	545	1180.00	300	105
333	555	535	545	1180.00	300	120
334	560	535	548	750.00	400	85
335	561	514	537	900.00	300	115
336	562	546	541	1100.00	300	55
337	563	533	522	282.00	780	65
338	571	516	542	110.00	300	85
339	572	524	543	700.00	300	105
340	573	522	544	1700.00	300	105
341	574	541	545	600.00	300	165
342	575	510	546	1100.00	300	85
343	576	512	547	800.00	300	115
344	577	537	548	650.00	300	95
345	578	521	549	600.00	300	105
346	579	533	551	550.00	400	85
347	580	525	526	700.00	300	85
348	600	600	601	1000.00	300	130
349	602	602	641	880.00	600	115
350	603	602	634	900.00	600	120

ANSOP PP 3

ANSOP PP 3

ANSOP PP 3

PIPE AND VALVE CAT #

NUMBER	NODE	MODE	LENGTH	CIAM	H-W	COEFF.
351	604	607	603	500.00	600	120
352	606	607	603	500.00	600	135
353	610	609	610	1080.00	1525	115
354	611	609	616	2030.00	1525	115
355	616	610	616	950.00	1525	115
356	617	616	619	144.00	2640	100
357	620	620	621	337.00	1200	110
358	4120	620	621	337.00	1200	135
359	621	621	622	730.00	1200	110
360	622	622	602	890.00	600	110
361	4062	622	602	890.00	750	130
362	623	621	623	800.00	600	160
363	5623	621	623	800.00	900	135
364	624	623	624	750.00	300	105
365	625	625	644	850.00	300	105
366	626	626	645	700.00	300	75
367	627	627	626	1100.00	300	115
368	628	621	627	450.00	400	115
369	5628	621	627	450.00	600	130
370	625	5619	630	140.00	1350	50
371	630	5619	633	224.00	1850	100
372	631	630	107	2290.00	1676	100
373	4124	630	107	2290.00	1200	135
374	632	536	609	1286.00	1960	115
375	633	507	616	5670.00	2100	120
376	634	603	600	770.00	300	105
377	635	623	603	1300.00	300	105
378	4064	623	603	1300.00	900	125
379	636	630	112	1250.00	1500	110
380	637	634	603	600.00	400	120
381	640	535	600	1400.00	300	60
382	641	627	633	950.00	464	125
383	642	601	601	800.00	300	105
384	643	641	642	750.00	300	105
385	644	607	535	250.00	900	65
386	4144	607	535	550.00	600	130
387	645	624	644	700.00	300	105
388	646	645	625	700.00	300	75
389	700	708	726	800.00	200	105
390	701	700	703	1100.00	250	100
391	703	726	742	1100.00	300	105
392	704	728	730	750.00	300	50
393	705	705	708	900.00	600	130
394	706	712	720	259.00	500	50
395	707	742	725	1300.00	300	105
396	708	720	730	929.00	900	105
397	709	722	712	256.00	626	125
398	711	109	713	1700.00	250	70
399	712	722	724	550.00	600	100
400	713	711	713	250.00	640	70

AMSUP PP 3
 AMSOP PP 3
 AMSOP PP 3
 AMSOP PP 3
 AMSOP PP 3
 AMSOP PP 3
 AMSOP PP 3
 AMSOP PP 3

PIPE AND VALVE DATA

NUMBER	ACOE	NOCE	LENGTH	DIAM	M	COEF.
401	714	724	730	1000.00	600	135
402	715	714	712	400.00	600	135
403	716	714	716	600.00	600	135
404	717	716	717	150.00	500	105
405	718	717	718	800.00	500	105
406	719	719	721	900.00	500	105
407	721	729	721	200.00	400	105
408	722	741	748	750.00	400	125
409	723	729	1021	200.00	500	105
410	724	717	732	1000.00	300	80
411	726	730	734	500.00	648	115
412	732	704	747	1000.00	912	100
413	734	704	700	1000.00	912	100
414	735	747	712	500.00	750	115
415	737	700	622	1200.00	912	100
416	742	704	8008	400.00	500	50
417	743	740	741	500.00	400	80
418	744	108	705	600.00	465	115
419	500	502	906	2730.00	816	125
420	501	906	908	600.00	816	125
421	504	908	912	750.00	600	110
422	506	912	914	1100.00	600	110
423	1000	914	1002	1627.00	2000	125
424	1002	1002	1008	1960.00	2000	125
425	1005	1004	916	1750.00	600	130
426	1006	1006	1004	500.00	750	130
427	1008	1008	1006	110.00	2000	130
428	1016	1006	1016	1325.00	2300	130
429	1018	6030	1016	1345.00	2100	130
430	1103	412	187	874.00	1200	125
431	7800	412	187	874.00	2000	135
432	1105	11	8	1200.00	300	120
433	1107	158	7	958.00	2000	135
434	1108	135	6	1301.00	1500	125
435	1109	7	135	500.00	1500	125
436	1110	138	10	623.00	450	120
437	1111	12	160	750.00	900	125
438	1112	13	12	750.00	900	125
439	1113	155	13	1543.00	1050	125
440	1114	188	117	592.00	1200	125
441	7802	188	117	592.00	2000	135
442	1115	161	14	760.00	600	120
443	1116	21	185	1000.00	600	125
444	1117	190	28	700.00	600	125
445	1120	7	20	700.00	2800	135
446	1121	187	188	414.00	1200	125
447	7801	187	188	414.00	2000	135
448	1122	21	116	950.00	600	125
449	5031	21	116	950.00	750	130
450	1125	29	113	1307.00	500	120

MPLAN PIPE 2

MPLAN PIPE 2

MPLAN PIPE

AMSUP PP

PIPE AND VALVE DATA

NUMBER	NODE	NGCE	LENGTH	DIAM	HTM	COEF.
421	1127	29	824.00	600		120
452	1128	189	750.00	600		125
453	1129	28	2060.00	500		120
454	7809	28	2060.00	2000	✓	135
455	7810	29	1250.00	2000	✓	125
456	1130	162	1150.00	450		120
457	1131	31	576.00	2200	✓	130
458	4121	31	576.00	1200		125
459	1132	32	950.00	2800		130
460	1133	6120	2045.00	750		125
461	1134	163	800.00	600		125
462	1136	11	800.00	750		125
463	1144	2	300.00	300		120
464	1145	6000	700.00	300		125
465	1146	182	800.00	500		120
466	1148	137	550.00	2200		130
467	1150	136	700.00	2200		130
468	4126	136	700.00	1200	✓	135
469	1153	128	1450.00	2600		130
470	1154	22	240.00	2600		130
471	1160	168	550.00	2200		130
472	4127	168	550.00	1200	✓	135
473	1161	8006	600.00	600		120
474	1162	30	850.00	450		120
475	1163	10	350.00	600		120
476	1164	160	700.00	750		125
477	1165	159	818.00	1050		125
478	1166	11	19.6.00	3000		135
479	1195	117	1250.00	1050		125
480	7803	117	1250.00	2000	✓	135
481	1566	518	650.00	300		125
482	5566	518	650.00	300	✓	130
483	1567	553	500.00	300		120
484	1628	620	400.00	600		120
485	1637	632	450.00	300		120
486	1638	631	300.00	200		120
487	1639	627	300.00	400		125
488	1641	634	950.00	400		125
489	1642	620	1800.00	300		120
490	1643	635	1800.00	300		120
491	1701	702	1050.00	300		125
492	1702	702	250.00	300		125
493	1712	747	1000.00	600		125
494	1725	713	1130.00	400		120
495	1727	727	180.00	600		120
496	1730	701	1000.00	400		125
497	1732	746	1994.00	400		125
498	1734	633	1130.00	400		125
499	1900	5502	2700.00	2200		130
500	1902	906	1250.00	350		120

MPLAN PIPE | BUK 2
MPLAN PIPE

AMSOP PP 2

AMSOP PP 5

AMSOP PP 5

MPLAN PIPE | BUK 2
AMSOP PP 3

07/04/95

BLUCKS 2,3,4,5,6 (2015 PEAK HOUR - CASE 2)

PIPE AND VALVE DATA

NUMBER	NODE	NODE	LENGTH	DIAM	H-W	COEF.
501	1903	909	914	480.00	2000	125
502	1904	910	909	666.00	2000	125
503	1906	907	910	2000.00	2200	120
504	2015	66	173	620.00	600	115
505	2016	715	818	460.00	1800	130
506	2017	8007	8008	800.00	300	115
507	2018	8007	741	430.00	250	115
508	2019	8008	740	350.00	500	115
509	2023	506	906	2730.00	400	115
510	4109	109	5711	1100.00	750	125
511	4400	400	6090	2000.00	3000	130
512	4401	404	6085	1500.00	3000	130
513	4411	412	411	1555.00	3000	135
514	4412	6085	412	2739.00	3000	125
515	7825	6085	411	3600.00	2000	125
516	4505	502	5502	407.00	1800	120
517	4618	616	5618	124.00	1500	50
518	4711	5711	711	550.00	600	125
519	4715	715	8509	700.00	300	122
520	4726	5711	726	700.00	600	125
521	7006	4746	4745	1400.00	1050	125
522	7700	1016	4746	400.00	1050	125
523	6040	4746	4745	1400.00	1350	125
524	7001	741	747	900.00	1200	125
525	7002	745	741	150.00	1200	125
526	7004	748	7717	500.00	400	125
527	7005	31	6122	1330.00	1050	125
528	7008	5804	16	200.00	600	55
529	7015	6015	746	330.00	600	125
530	7040	6030	1021	276.00	1350	125
531	7045	6030	719	1700.00	1800	125
532	7060	132	47	430.00	2200	110
533	8000	40	6000	630.00	1050	85
534	9000	47	66	1300.00	2200	110
535	9010	66	65	1300.00	2200	110
536	9015	65	181	1300.00	2200	110
537	9020	181	200	850.00	2200	130
538	9036	6120	30	50.00	750	125
539	1350	254	260	925.00	300	130
540	1351	13	5804	1720.00	600	130
541	1352	17	6122	700.00	750	130
542	4502	5502	506	198.00	1800	135
543	255	278	277	750.00	300	85
544	260	258	270	1075.00	600	120
545	260	258	270	1075.00	600	120
546	261	255	259	750.00	400	60
547	262	264	274	150.00	600	50
548	263	259	274	750.00	400	105
549	264	262	269	1500.00	400	75
550	4262	244	5264	750.00	600	125

AMSOP PP 6

AMSOP PP 5

PIPE AND VALVE DATA

NUMBER	NOCE	NOCE	LENGTH	DIAM	F-W COEF.
551	265	274	272	287.00	500
552	266	270	282	700.00	600
553	5266	270	282	700.00	600
554	267	257	264	800.00	600
555	268	272	284	560.00	500
556	269	270	272	400.00	600
557	270	269	253	900.00	400
558	272	282	280	370.00	500
559	273	280	283	130.00	400
560	274	284	282	332.00	500
561	275	283	285	850.00	400
562	276	286	284	250.00	400
563	278	288	286	250.00	1532
564	279	288	295	1100.00	400
565	280	289	288	600.00	1773
566	281	290	289	250.00	1773
567	282	291	290	550.00	1773
568	283	292	291	300.00	1773
569	284	292	294	350.00	1144
570	4032	292	294	350.00	1200
571	285	281	301	600.00	300
572	5285	281	301	600.00	600
573	288	830	296	600.00	1055
574	300	297	300	1100.00	1055
575	7826	297	300	1100.00	1200
576	301	285	301	450.00	250
577	302	300	302	1000.00	335
578	7827	300	302	1000.00	1200
579	303	299	301	900.00	400
580	824	824	278	550.00	300
581	5824	824	278	550.00	600
582	826	824	826	1600.00	300
583	828	824	828	1600.00	1112
584	830	828	830	180.00	1055
585	1217	265	264	650.00	400
586	1219	266	265	400.00	300
587	1222	266	266	600.00	2000
588	1223	266	269	300.00	600
589	1224	266	267	650.00	2000
590	1225	267	292	650.00	2000
591	1226	287	295	332.00	500
592	1227	269	276	200.00	400
593	1228	286	287	316.00	500
594	1229	295	283	350.00	400
595	1231	287	281	200.00	260
596	5231	287	281	300.00	600
597	1301	285	301	400.00	600
598	1302	297	305	2100.00	1050
599	1305	305	302	800.00	1050
600	4262	264	5264	750.00	650

AWSUP PP 5

AWSOP PP 5

AWSOP-PP/MPLAN BUK 5

MPLAN PIPE BUK 5

MPLAN PIPE BUK 5

AWSOP PP 4

AWSOP-PP/MPLAN BUK 5

ACCE DATA

NUMBER	GROUND ELEV MT	RELATIVE DEMAND	BEYOND DISTRICT	DESCRIPTION	MINIMUM MOL ELEV MT	PIPE, VALVE, AND PUMP NUMBERS
1	12.0	5.840	BAGBAG		33.0	1144 1145
2	11.0	8.770	BAGBAG		32.0	43 101
3	26.0	22.120	BAGBAG		47.0	46 1108 1165
4	30.0	5.610	BAGBAG		51.0	1107 1109 1120
5	11.5	6.590	BAGBAG		32.5	1105
6	11.5	9.400	BAGBAG		32.5	1110 1136 1163
7	12.0	11.340	BAGBAG		33.0	1105 1136 1164
8	12.0	10.500	BAGBAG		32.0	1111 1112
9	13.0	6.090	BAGBAG		34.0	1112 1113 1351
10	12.0	12.490	BAGBAG		33.0	1116 1115 1130
11	12.0	19.690	BAGBAG		22.0	10 116
12	18.0	25.620	BAGBAG		39.0	175 7008
13	17.0	33.790	BAGBAG		42.0	54 175 1352
14	26.0	22.390	BAGBAG		47.0	11 53 59 122
15	28.0	13.980	BAGBAG		49.0	46 120 135
16	30.0	27.580	BAGBAG		51.0	12 13 1120
17	20.0	32.570	BAGBAG		47.0	1116 1122 5031
18	32.0	28.460	BAGBAG		53.0	104 122 138 1154
19	20.0	6.680	BAGBAG		41.0	48 4807
20	20.0	9.030	BAGBAG		41.0	118 1127 4807
21	22.0	12.260	BAGBAG		43.0	7807 7808 1117 1129 7809
22	20.0	6.600	BAGBAG		41.0	1125 1127 1125 7809 7810
23	12.0	9.400	BAGBAG		33.0	1161 1162 5036
24	20.0	27.950	BAGBAG		41.0	1131 4121 1132 7005
25	25.0	22.360	BAGBAG		46.0	15 53 1132 1153
26	11.0	4.800	BAGBAG		32.0	111 113 152 1134
27	15.0	4.620	BAGBAG		36.0	17 68 136 137
28	30.0	19.310	BAGBAG		51.0	104 107
29	20.0	10.080	BAGBAG		47.0	7808 105 107
30	24.0	0.0	BAGBAG		45.0	105 106
31	22.0	11.030	BAGBAG		42.0	106 114
32	20.0	5.070	BAGBAG		41.0	62 114 8000
33	12.0	4.800	BAGBAG		32.0	20
34	13.0	4.800	BAGBAG		34.0	1151 1152
35	12.0	4.800	BAGBAG		33.0	111 112
36	12.0	6.370	BAGBAG		33.0	52 111 112
37	13.0	4.800	BAGBAG		34.0	68 144 176
38	12.0	7.420	BAGBAG		33.0	50 151 157
39	12.0	4.800	BAGBAG		32.0	25 119 145 7817 150 7060 9000
40	12.0	4.800	BAGBAG		33.0	119 148 149 7817 153 7816
41	12.0	4.800	BAGBAG		33.0	145 148
42	12.0	6.060	BAGBAG		33.0	144 145 146 147
43	12.0	5.000	BAGBAG		33.0	79 91 101 146
44	12.0	4.800	BAGBAG		33.0	147 153 7816 154 7815
45	13.0	7.140	BALARA1		34.0	26 27 154 155
46	12.0	6.260	BAGBAG		33.0	43 50 174
47	12.0	6.790	BALARA1		33.0	50 128
48	13.0	5.110	BALARA1		34.0	29 5029 7813 7818 172 7814
49	12.0	10.000	BALARA1		33.0	16 174
50	17.0	7.170	BALARA1		38.0	12 75 123 48 123 7812 124 7811 159

ACDE DATA

NUMBER	GROUND ELEV MT	RELATIVE CEMANC DISTRICT	MINIMUM PGL ELEV DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
51	66	12.0	0.0 BALARA1	33.0 76
52	61	20.0	12.000 BALARA1	41.0 95 7823 124 7811 7810
53	62	13.0	5.990 BALARA1	34.0 31 127 173 1146
54	63	18.0	5.630 BALARA1	37.0 125 155 173
55	64	20.0	7.140 BALARA1	41.0 30 125
56	65	12.0	3.190 BAGBAG	32.0 22 23 158 9010 9015
57	60	12.0	4.800 BAGBAG	32.0 21 121 158 164 2015 9000 9010
58	67	12.0	6.390 BAGBAG	33.0 115 130 156 164
59	68	12.0	3.190 BAGBAG	33.0 130 141
60	65	12.0	4.300 OACBAG	33.0 121 140
61	70	12.0	6.210 BAGBAG	33.0 20 108 140 170
62	71	12.0	0.0 BAGBAG	33.0 109 141
63	72	12.0	5.390 BAGBAG	32.0 155 160 161
64	73	12.0	2.150 BAGBAG	32.0 109 135 161 162
65	74	12.0	2.150 BAGBAG	32.0 108 162 163
66	75	12.0	7.340 BAGBAG	33.0 180 181
67	76	12.0	4.140 BAGBAG	32.0 24 142 170
68	77	12.0	2.150 BAGBAG	32.0 142 163 182
69	78	12.0	1.140 BAGBAG	33.0 178 182 158
70	79	12.0	3.560 BAGBAG	33.0 178 179
71	80	12.0	6.060 BAGBAG	33.0 131 139 179 184
72	81	12.0	0.0 BAGBAG	33.0 131 160 4007
73	82	12.0	1.050 BAGBAG	33.0 67 102 4007
74	83	12.0	3.050 BAGBAG	33.0 49 102 165 187
75	84	13.0	6.850 BAGBAG	34.0 49 184 185
76	85	13.0	0.0 BAGBAG	34.0 183 165
77	86	12.0	2.150 BAGBAG	33.0 186 198
78	87	12.0	0.0 BAGBAG	33.0 41 155
79	88	13.0	1.210 BAGBAG	34.0 100 183 189
80	89	13.0	7.160 BALARA1	34.0 100 165 166 190
81	90	13.0	1.210 BALARA1	34.0 150 191 153
82	91	12.0	1.820 BALARA1	33.0 189 152
83	92	13.0	9.880 BALARA1	34.0 166 193 155
84	93	13.0	3.290 BALARA1	34.0 84 171 192 194
85	94	13.0	5.930 BALARA1	34.0 84 168 195 196
86	95	13.0	3.400 BALARA1	34.0 156
87	96	12.0	2.030 BALARA1	33.0 168 197
88	97	13.0	1.340 BALARA1	34.0 50 167 157
89	98	13.0	2.030 BALARA1	34.0 80 165
90	99	12.0	2.030 BALARA1	33.0 80 165
91	100	12.0	5.160 BALARA1	33.0 103 110 132 177
92	101	12.0	11.410 BALARA1	32.0 82 87 110
93	104	18.0	0.0 BALARA1	35.0 47 87 57 126
94	105	22.0	8.050 BALARA1	42.0 32 35 47 85
95	106	14.0	0.0 BALARA1	35.0 52 86 89 4123 631 4124
96	107	32.0	0.0 BALARA1	52.0 37 85 4123 744
97	108	11.0	12.110 BALARA1	32.0 36 88 711 4109
98	109	12.0	0.0 BALARA1	33.0 167
99	111	12.0	1.340 BALARA1	33.0 34 696
100	112	20.0	3.120 BALARA1	41.0

NOISE DATA

NUMBER	GROUND ELEV FT	RELATIVE DEMAND	DISTRICT	MINIMUM FOL ELEV FT	DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
101	112	28.0	6-070	49.0	DAGBAG	6 52 1125
102	114	30.0	7-160	51.0	BAGBAG	7 92 53 7806 7807
103	115	27.0	11-800	48.0	BAGBAG	23 7805 94 7804
104	116	26.0	2-400	47.0	BAGBAG	8 94 7804 1122 5031 1195 7803
105	117	38.0	9-870	59.0	BAGBAG	1114 7802 1155 7803
106	118	12.0	0-0	33.0	BAGBAG	75
107	119	12.0	0-0	22.0	BAGBAG	72 7812 7813 127
108	122	20.0	0-0	41.0	BAGBAG	62
109	123	26.0	0-0	47.0	BAGBAG	58 59
110	124	26.0	0-0	47.0	BAGBAG	54 4000
111	126	26.0	0-0	47.0	BAGBAG	54 4000
112	128	30.0	0-0	51.0	BAGBAG	1153 1154
113	132	12.0	3-400	33.0	BAGBAG	52 1148 7060
114	135	24.0	19-800	45.0	BAGBAG	1108 1109
115	136	13.0	4-800	34.0	BAGBAG	19 137 1150 4126 1160 4127
116	137	12.0	6-390	33.0	BAGBAG	18 176 1148 1150 4126
117	138	12.0	9-400	33.0	BAGBAG	1110
118	142	26.0	5-070	47.0	BAGBAG	8
119	153	30.0	7-830	51.0	BAGBAG	7
120	154	28.0	3-060	49.0	BAGBAG	6
121	155	18.0	2-140	29.0	BALARA1	38 39
122	156	18.0	9-680	35.0	BALARA1	36 37
123	157	18.0	3-630	27.0	BALARA1	88 247
124	158	30.0	9-870	51.0	BAGBAG	1107 1106
125	159	24.0	6-990	45.0	BAGBAG	1113 1165
126	160	11.0	6-990	32.0	BAGBAG	1111 1164
127	161	12.0	11-670	33.0	BAGBAG	1115 1163
128	162	12.0	7-590	33.0	BAGBAG	1130 1162
129	163	12.0	11-840	33.0	BAGBAG	1134
130	164	30.0	13-580	51.0	BAGBAG	12 120
131	165	27.0	7-610	48.0	BAGBAG	11 135
132	166	12.0	23-150	32.0	BAGBAG	10 117
133	167	28.0	21-520	49.0	BAGBAG	13 136
134	168	12.0	18-050	33.0	BAGBAG	4331 4121 1160 4127
135	169	22.0	4-160	43.0	BAGBAG	15 136
136	170	12.0	4-800	33.0	BAGBAG	19 113
137	171	12.0	4-800	33.0	BAGBAG	18 112
138	172	12.0	3-190	33.0	BAGBAG	22
139	173	12.0	4-800	33.0	BAGBAG	21 157 2015
140	174	12.0	4-800	33.0	BAGBAG	25 115
141	175	12.0	4-800	33.0	BAGBAG	26 156
142	176	26.0	1-470	47.0	BALARA5	3
143	178	12.0	10-650	33.0	BAGBAG	27 128
144	179	12.0	5-710	33.0	BAGBAG	91 172 7814 7815
145	180	12.0	3-190	33.0	BAGBAG	23 181
146	181	12.0	6-210	33.0	BAGBAG	24 180 9015 9020
147	182	12.0	7-140	32.0	BALARA1	29 5025 171 1146
148	183	12.0	7-140	32.0	BALARA1	31 177
149	184	18.0	9-720	37.0	BALARA1	30 126
150	185	12.0	6-390	33.0	BAGBAG	33 97

ALCC DATA

NUMBER	GROUND ELEV. FT	RELATIVE CENANG DISTRICT	MINIMUM ELEV. FT	DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
151	14.0	2-390 BALARAG	35.0		32 143
152	14.0	13-550 DAGBAG	57.0		1103 7800 1121 7801
153	128	9-870 DAGBAG	55.0		1114 7802 1121 7801
154	189	9-870 DAGBAG	49.0		1116 1128
155	28.0	16-010 BAGBAG	43.0		1117 1128
156	191	11-950 DAGBAG	51.0		35 7805 53 7806
157	152	3-850 DAGBAG	33.0		16
158	153	8-660 BAGBAG	21.0		17 79
159	200	3-860 ERMITAPS	21.0		200 2003 9020
160	201	4-350 ERMITAPS	21.0		200 201
161	202	6-930 ERMITAPS	21.0		201 202 204
162	203	2-430 ERMITAPS	21.0		202 203 2002
163	204	0-0 PASIGGR	21.0		203
164	206	1-930 ERMITAPS	21.0		204 206
165	208	2-890 ERMITAPS	21.0		206 208 210
166	210	1-590 ERMITAPS	21.0		208 205
167	211	7-500 ERMITAPS	21.0		209 213
168	212	0-0 ERMITAPS	21.0		213
169	214	2-890 ERMITAPS	21.0		210 212
170	216	8-470 PASIGGR	21.0		217 1208 1216 9061
171	217	11-360 BALARAGR	21.0		225 5225 222
172	218	12-310 BALARAGR	21.0		217 218 220 5220
173	220	1-100 BALARAGR	21.0		218 226 7821 7822 228 230 2001
174	222	10-360 BALARAGR	21.0		224 7820 226 7821
175	223	12-720 BALARAGR	21.0		228 143
176	224	12-500 BALARAGR	21.0		222 224 7820 132 7819
177	226	5-610 ERMITAPS	21.0		212 214 1260
178	228	4-650 ERMITAPS	21.0		214 216 232
179	230	6-210 PASIGGR	21.0		216 1808 1210 2000
180	232	7-520 ERMITAPS	21.0		234 1260
181	234	7-520 ERMITAPS	21.0		232 234 236 238
182	236	6-270 PASIGGR	21.0		7822 236 237 1210 1212
183	238	9-190 PASIGGR	21.0		230 237 239 242 243 4238 4246
184	240	5-360 PASIGGR	21.0		242 244
185	242	13-010 PASIGGR	21.0		244 246 247
186	243	0-0 ESPRIPS	21.0		243 5204
187	244	0-0 ESPRIPS	21.0		241 5241 245 5245 2043 4122
188	246	7-750 ESPRIPS	21.0		241 5241 250 252
189	247	6-040 BALARAGR	21.0		1252 1254
190	248	6-740 PASIGGR	21.0		248 250 258
191	249	5-030 BALARAGR	21.0		1250 1252
192	250	6-440 PASIGGR	21.0		246 248
193	251	0-0 ESPRIPS	21.0		238 239 255
194	252	0-0 ESPRIPS	21.0		240 5240 245 5245
195	253	2-910 ESPRIPS	21.0		252 256 1350
196	254	5-670 ESPRIPS	21.0		255 261 5001
197	255	4-800 ESPRIPS	21.0		1212 1218 4246
198	256	4-800 ESPRIPS	21.0		256 267 5002
199	257	4-790 ESPRIPS	21.0		254 5254 260 5260 5000
200	258	9-570 ESPRIPS	21.0		

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GROUND ELEV. M	RELATIVE DEMAND DISTRICT	MINIMUM HGL ELEV. M	DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
201	4.790	21.0	ESPIRIPS	261 263 5001
202	5.760	21.0	PASIGGR	1219 1220 1350 1222 5004
203	9.390	21.0	PASIGGR	258 1220 1221 264 5005
204	8.140	21.0	PASIGGR	1221
205	4.900	21.0	ESPIRIPS	4262 267 1217 4262 5002
206	2.320	21.0	ESPIRIPS	1217 1219
207	3.480	21.0	PASIGGR	1219 1222 1223 1224 5004
208	5.700	21.0	PASIGGR	1224 1225
209	12.490	21.0	BALARAGH	257 4118 816 4119 1801
210	5.270	21.0	PASIGGR	264 270 1223 1227 5005
211	7.640	21.0	ESPIRIPS	260 5260 266 5266 269
212	4.770	21.0	MAKATIPS	253
213	1.520	21.0	PASIGGR	265 268 265
214	5.580	21.0	BALARAGH	257 4118
215	4.900	21.0	ESPIRIPS	262 263 265
216	6.260	21.0	PASIGGR	1227 4206
217	6.260	21.0	PASIGGR	259 4206
218	12.200	21.0	PASIGGR	259 824 5824
219	4.890	21.0	ESPIRIPS	272 273
220	0.0	21.0	PASIGGR	285 5285 1231 5231
221	2.880	21.0	PASIGGR	266 5266 272 274
222	4.570	21.0	PASIGGR	273 275 1229
223	1.520	21.0	PASIGGR	268 274 276
224	1.920	21.0	PASIGGR	275 301 1301
225	12.470	21.0	PASIGGR	276 278 1228
226	9.800	21.0	PASIGGR	1226 1228 1231 5231
227	5.100	21.0	PASIGGR	278 275 280
228	13.620	21.0	PASIGGR	280 281
229	7.580	21.0	PASIGGR	281 282
230	0.0	21.0	PASIGGR	282 283
231	9.570	21.0	PASIGGR	283 284 4032 1225
232	0.570	21.0	PASIGGR	270
233	1.340	21.0	FBONIPS	264 4032
234	2.030	21.0	PASIGGR	1226 1225 5208
235	0.670	21.0	FBONIPS	288
236	0.0	21.0	PASAYPS	360 7826 1302 5208
237	2.870	21.0	PASIGGR	279 303
238	18.440	21.0	PASAYPS	300 7826 302 7827
239	39.000	21.0	PASIGGR	285 5285 301 303 1301
240	9.230	21.0	PASAYPS	302 7827 1305 304 7828
241	5.530	21.0	BAGBAG	304 7828 306 7829
242	0.0	21.0	PASAYPS	1302 1305 1303
243	11.060	21.0	BAGBAG	308 7830 1311 3033 7834 306 7829
244	0.0	21.0	BAGBAG	1303 1308
245	35.750	21.0	BAGBAG	308 7830 310 7831
246	12.000	21.0	BAGBAG	1311 1310 1308
247	4.210	21.0	BAGBAG	310 7831 1314 7832
248	0.0	21.0	BAGBAG	1312 1310
249	55.770	21.0	BAGBAG	1316 7833 1314 7832
250	0.0	21.0	BAGBAG	1316 7833 1312

NCDE DATA

NUMDGR	GROUND ELEV	RELATIVE DEMAND	DISTRICT	MINIMUM PGL ELEV	DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
251	400	73.0	-657-140 BAGBAG	41.0	44CC	
252	402	72.0	-656-000 BALARAGR	21.0	50C4	
253	404	60.0	0.0 BAGBAG	81.0	4401 4804	
254	411	42.0	0.0 BAGBAG	62.0	1166 4411 7825	
255	412	43.0	10-670 BAGBAG	64.0	1103 7800 4411 4412	
256	500				501 502	
257	501				506 4117	
258	502	30.0	0.0 BALARAS	51.0	501 504 505 900 4505	
259	504	52.0	22-860 BALARAS	73.0	502 504 502	
260	505	52.0	-33-750 BALARAS	72.0	509 502	
261	506	50.0	0.0 BALARAS	71.0	505 506 4117 507 508 2023 4502 5004	
262	507	50.0	0.0 BALARAS	71.0	507 622	
263	508	50.0	0.0 BALARAS	71.0	508 558	
264	509	80.0	2-880 BALARAS	101.0	510 511 512	
265	510	80.0	2-880 BALARAS	101.0	509 510 513 575	
266	511	70.0	2-880 BALARAS	91.0	511 512 514	
267	512	78.0	4-350 BALARAS	95.0	513 515 576	
268	513	59.0	1-450 BALARAS	80.0	514 518	
269	514	58.0	4-180 BALARAS	75.0	517 519 561	
270	516	58.0	0.0 BALARAS	79.0	518 520 571	
271	517	57.0	0.0 BALARAS	78.0	520 521 522 524 541	
272	518	54.0	5-660 BALARAS	75.0	521 523 1566 5566	
273	519	54.0	0-460 BALARAS	75.0	522 523 530 530	
274	520	54.0	1-700 BALARAS	75.0	524 525	
275	521	52.0	3-510 BALARAS	73.0	525 578	
276	522	48.0	6-450 BALARAS	69.0	526 550 563 573	
277	523	44.0	1-550 BALARAS	65.0	527 528	
278	524	38.0	11-400 BALARAS	59.0	525 542 572	
279	525	43.0	11-400 BALARAS	64.0	529 530 5530 580	
280	526	46.0	5-310 BALARAS	67.0	540 580	
281	527	33.0	6-330 BALARAS	54.0	544 545	
282	528	34.0	3-840 BALARAS	55.0	545 546	
283	529	34.0	3-840 BALARAS	55.0	546 547 548	
284	530	32.0	12-230 BALARAS	51.0	547 549	
285	531	60.0	3-740 BALARAS	61.0	548 550	
286	532	60.0	6-450 BALARAS	61.0	549 551	
287	533	66.0	7-040 BALARAS	67.0	552 553 554 553 563 579	
288	534	50.0	0-0 BALARAS	71.0	553 554	
289	535	52.0	2-740 BALARAS	72.0	552 553 554	
290	536	52.0	0-0 BALARAS	72.0	552 553 554	
291	537	47.0	2-740 BALARAS	68.0	554 555 559 560 640 644 6744	
292	538	67.0	4-170 BALARAS	88.0	558 632	
293	539	36.0	5-540 BALARAS	57.0	561 572	
294	541	56.0	7-680 BALARAS	77.0	562 544	
295	542	57.0	0.0 BALARAS	78.0	562 574	
296	543	43.0	1-550 BALARAS	64.0	515 515 541 571	
297	544	48.0	1-550 BALARAS	49.0	528 572	
298	545	56.0	6-020 BALARAS	77.0	527 573	
299	546	60.0	2-880 BALARAS	81.0	559 5559 574	
300	547	68.0	4-350 BALARAS	89.0	562 575	

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NUMBER	GROUND ELEV MT	RELATIVE DEMANC DISTRICT	MINIMUM HGL ELEV DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
361	49.0	2-740 BALARA5	67-C	560 577
362	41.0	3-510 BALARA5	62-C	526 578
363	32.0	6-440 BALARA5	53-0	551 579
364	50.0	5-310 BALARA5	71-C	540 1567
365	50.0	5-180 BALARA5	71-C	1566 5566 1567
366	52.0	10-080 SANJUAN	73-0	600 634 640
367	60.0	8-070 SANJUAN	75-0	600 642 1641
368	62.0	11-380 SANJUAN	81-C	602 603 622 4062
369	66.0	6-600 SANJUAN	73-C	604 606 634 635 4064 637
370	66.0	6-600 SANJUAN	73-C	604 4061 644 4144 645
371	66.0	0-0 SANJUAN	71-C	610 611 632 645
372	61.0	0-0 SANJUAN	68-C	56 7824 610 616
373	61.0	0-0 SANJUAN	62-C	611 616 617 633 4618
374	62.0	213-710 SANJUAN	59-0	620 4129 1628 1642
375	62.0	13-190 SANJUAN	63-C	620 4120 621 623 5623 628 5628
376	62.0	18-700 SANJUAN	67-C	621 622 4062 737
377	47.0	13-190 SANJUAN	68-C	623 5623 624 635 4364
378	62.0	9-890 SANJUAN	61-C	624 645
379	62.0	3-830 SANJUAN	57-C	625 646
380	62.0	3-830 SANJUAN	51-C	626 627
381	62.0	11-860 SANJUAN	59-0	627 628 5628 641 1639
382	62.0	0-0 SANJUAN	59-C	1628 1639
383	63.0	0-0 SANJUAN	59-C	629 630 631 4184 636
384	63.0	1-760 BAGBAG	64-C	95 7823 56 7824 1638
385	63.0	4-300 BAGBAG	64-C	95 7823 56 7824 1638
386	63.0	13-050 SANJUAN	47-0	95 7823 56 7824 1638
387	63.0	10-260 SANJUAN	75-0	95 7823 56 7824 1638
388	63.0	2-560 BAGBAG	49-0	95 7823 56 7824 1638
389	63.0	4-300 BAGBAG	42-0	95 7823 56 7824 1638
390	63.0	8-670 SANJUAN	74-C	602 643
391	63.0	5-970 SANJUAN	73-C	642 643
392	63.0	3-300 SANJUAN	54-0	625 645 1642
393	64.0	2-530 SANJUAN	43-C	626 646
394	64.0	17-090 BALARA7	80-0	701 734 737
395	64.0	5-210 BALARA7	37-0	1701 1730 1734
396	64.0	3-210 BALARA7	59-0	1701 1702
397	64.0	0-0 BALARA7	67-C	701 1702
398	64.0	20-770 BALARA7	61-0	732 734 742
399	64.0	3-480 BALARA7	38-0	705 744
400	64.0	2-130 BALARA7	59-0	700 705
401	64.0	3-010 BALARA7	32-0	713 4711
402	64.0	4-100 BALARA7	70-0	706 709 715 735
403	64.0	2-400 BALARA7	33-0	711 713 1725
404	64.0	5-400 BALARA7	69-C	715 716
405	64.0	5-530 BALARA7	69-C	716 717
406	64.0	2-530 BALARA7	72-0	717 718 724 7004
407	64.0	0-0 BALARA7	61-0	718 4715 5007
408	64.0	1-720 BALARA7	56-C	719 2016 7045 5007
409	64.0	0-0 BALARA7	71-0	706 708
410	64.0	1-720 BALARA7	36-C	719 721

NODE DATA

NUMBER	GROUND ELEV FT	RELATIVE CEMARC	DEMAND	DISTRICT	DEMAND	DESCRIPTION	MINIMUM HGL ELEV FT	PIPE, VALVE, AND PUMP NUMBERS
351	722	51.0	2.600	BALARAG	72.0		705 712	
352	724	50.0	5.590	BALARAG	71.0		712 714	
353	725	14.0	1.800	BALARAG	35.0		707 1725	
354	726	16.0	3.500	BALARAG	37.0		700 703 4726	
355	727	36.0	8.570	BALARAG	57.0		1712 1727	
356	728	22.0	7.170	BALARAG	42.0		704 1732	
357	729	15.0	0.0	BALARAG	36.0		721 723	
358	730	38.0	5.630	BALARAG	59.0		704 708 714 726	
359	732	30.0	1.720	BALARAG	51.0		724	
360	734	20.0	4.780	BALARAG	41.0		726	
361	736	20.0	0.0	CAPTILPS	21.0		1254 1821 1822	
362	738	20.0	4.040	CAPTILPS	21.0		1821 5802	
363	740	50.0	2.960	BALARAG	71.0		743 2015	
364	741	50.0	6.220	BALARAG	71.0		722 743 2018 7001 7002	
365	742	20.0	2.370	BALARAG	41.0		703 707	
366	745	40.0	123.880	BALARAG	61.0		7002	
367	746	32.0	8.370	BALARAG	53.0		1727 1732 7015	
368	747	42.0	11.150	BALARAG	63.0		732 735 1712 7001	
369	748	50.0	2.000	BALARAG	71.0		722 7004	
370	800	28.0	6.350	MAKATIPS	21.0		802 804 1811 8811 4800 8800	
371	802	36.0	5.700	MAKATIPS	21.0		802 806	
372	804	19.0	5.590	MAKATIPS	21.0		804 806 807	
373	805	32.0	3.370	MAKATIPS	21.0		807 808 1809 1813 5813 1814 7010	
374	806	36.0	4.720	BALARAG	21.0		808 811 5811 814	
375	807	18.0	11.000	MAKATIPS	21.0		1801 1803	
376	808	18.0	15.590	MAKATIPS	21.0		253 812 5812	
377	809	24.0	6.590	MAKATIPS	21.0		811 5811 812 5812 1803 1805	
378	810	24.0	6.370	MAKATIPS	21.0		814 816 4115 818 7010	
379	811	32.0	3.370	MAKATIPS	21.0		1805 1805	
380	812	30.0	3.370	FTBONIPS	21.0		1814 1816	
381	813	32.0	5.540	MAKATIPS	21.0		1811 8811 1813 5813	
382	814	40.0	2.690	FTBONIPS	21.0		1816 1818	
383	815	40.0	1.500	FTBONIPS	21.0		1818 5804	
384	816	40.0	28.550	FTBONIPS	21.0		1815 5804	
385	818	16.0	0.0	BALARAG	21.0		2016 1815 4906	
386	820	14.0	2.210	BALARAG	21.0		1822 1824	
387	822	24.0	6.720	MAKATIPS	21.0		818 822 5006	
388	824	22.0	3.360	MAKATIPS	21.0		822 824 5824 826 828 5006	
389	826	28.0	1.590	MAKATIPS	21.0		826	
390	828	20.0	4.510	MAKATIPS	21.0		828 830	
391	830	20.0	7.610	MAKATIPS	21.0		288 830	
392	904	19.0	5.420	BALARAG	21.0		1902	
393	906	18.0	13.510	BALARAG	21.0		900 921 1902 2023	
394	907	22.0	13.510	BALARAG	21.0		1900 1906	
395	908	19.0	7.100	BALARAG	21.0		901 904	
396	909	20.0	3.210	BALARAG	21.0		1903 1904	
397	910	19.0	22.730	BALARAG	21.0		1904 1906	
398	912	20.0	3.210	BALARAG	21.0		904 906	
399	914	20.0	13.510	BALARAG	21.0		906 1000 1903	
400	914	20.0	27.600	BALARAG	21.0		1005	

NCUE DATA

NUMBER	GROUND ELEV MT	RELATIVE CEMANC CEMANC	CEMANT DISTRICT	MINIMUM MGL ELEV MT	DESCRIPTION	PIPE, VALVE, AND PUMP NUMBERS
401	1002	22.0	6-210 BALARAGR	21.0		1000 1002
402	1004	13.0	12-600 BALARAGR	21.0		1005 1006
403	1006	14.0	6-540 BALARAGR	21.0		1006 1008 1016
404	1008	14.0	6-570 BALARAGR	21.0		1002 1008
405	1016	14.0	6-570 BALARAGR	21.0		1016 1018 7700
406	1021	15.0	11-610 BALARAGR	21.0		723 7040
407	1216	13.0	0.0 PASIGGR	34.0		1216
408	2043	13.0	0.0 ESPIRIPS	21.0		2043 4122 5264
409	2081	18.0	16-590 BAGBAG	21.0		3032 7835
410	2082	14.0	14-000 BAGBAG	21.0		3033 7834 3022 7835
411	4745	40.0	78-290 BALARAGR	61.0		7000 4040
412	4746	14.0	0.0 BALARAGR	21.0		7000 7700 4040
413	5264	13.0	0.0 ESPIRIPS	21.0		262 4262 4262
414	5502	45.0	0.0 BALARAGR	66.0		1900 4505 4502
415	5618	41.0	128-000 SANJUAN	62.0		4618
416	5619	40.0	0.0 SANJUAN	82.0		617 625 630
417	5711	16.0	0.0 BALARAGR	35.0		4109 4711 4726
418	5800	28.0	18-080 MAKATIPS	49.0		4800 8880 5802
419	5804	18.0	0.0 BAGBAG	21.0		117 7008 1351
420	6000	12.0	0.0 BAGBAG	21.0		118 1145 8000
421	6015	32.0	0.0 BALARAGR	21.0		1730 7015
422	6030	15.0	0.0 BALARAGR	21.0		1018 7040 7045
423	6035				RESERVOIR	6401 4412 7825
424	6090	60.5	0.0 BAGBAG	21.0		4400 4804
425	6112	18.0	0.0 BALARAGR	21.0		28
426	6115	16.0	0.0 BALARAGR	21.0		1824 4806
427	6120	12.0	0.0 BAGBAG	21.0		1133 9036
428	6122	20.0	0.0 BAGBAG	21.0		1133 7005 1352
429	6150	11.0	0.0 BAGBAG	21.0		1144
430	6182	24.0	0.0 ERMITAS	21.0		5060 9061
431	8000	12.0	0.0 BALARAGR	33.0		2000 2001
432	8001	12.0	0.0 BAGBAG	33.0		2002 2003 5060
433	8006	13.0	0.0 BAGBAG	34.0		1161
434	8007	48.0	0.0 BALARAGR	69.0		2017 2018
435	8008	49.0	0.0 BALARAGR	70.0		742 2017 2019
436	8246	13.0	0.0 ESPIRIPS	21.0		4238
437	8509	50.0	0.0 BALARAGR	56.0		4719
438	8516	12.0	0.0 PASIGGR	21.0		1250

07/04/75

ULLCAS 213,4,500 (2015 PEAK FLOW - CASE 2)

RESERVOIR DATA

NUMBER	WATER SURFACE ELEV./SCHEDULE		INFLOW RATE PL/D	EST. SUPPLY RATE/SCHEDULE		ELEV. MT	VOLUME MGL	ELEV. FT	VOLUME MGL	ELEV. MT	CURVE COEFFICIENTS	
	MT	PL/D		ML/D	MT						MGL	MT
1	58.30	0.000	0.000	500.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	65.00	0.000	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	58.30	0.000	0.000	1250.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

07/24/95

BLOCKS 2,3,4,5,6 (2015 PEAK FOUR - CASE 2)

PRESSURE REGULATOR DATA

NUMBER NODE NCCE RATE/SCHEDULE DEMAND O/S PGL

ELEV./SCHEDULE

07/04/75

BLKKS 2,3,4,5,6 (2015 PEAK HOUR - CASE 2)

SCHEDULE DATA

DESIGN CONDITION NUMBERS

ID	UNITS	
1	PASVUCST	JRC 2304.000
2	BAURUCST	S 1004.000
3	CUBAUCST	OP 2000.000
4	ESPIUCST	Y 2104.000
5	MKIUCST	8012.000
6	FTUCST	- 2112.000
7	PEARFACT	J 1.750

PUMP DATA

NUMBER NODE NODE CURVE NO./SCHEDULE

1	5208	295	297	PASYRCS1
2	502	504	505	BALRBS1
3	645	609	607	CUBARBS1
4	520	243	2043	ESPTCS1
5	5802	738	5800	MKTIBS1
6	5804	816	815	FIBRBS1

PUMP CURVE DATA

NUMBER	HEAD UNITS	FLOW	HEAD	FLOW	HEAD	FLOW	HEAD	FLOW	HEAD	NO	CURVE	COEFFICIENTS
										MTR	A	B
1004	MTR	PLC	45.00	120.000	36.00	170.000	31.00	186.000	48.26	0.40416E-07	3.803	
2050	MTR	PLC	33.50	30.000	32.50	110.000	31.50	125.000	33.50	0.87097E-11	5.418	
2112	MTR	PLC	52.92	20.000	43.92	170.000	38.92	86.000	53.72	0.19730E-02	2.003	
2104	M	PLD	40.00	60.000	30.00	156.000	24.00	196.000	42.36	0.19455E-02	1.734	
2304	M	PLD	0.03	72.000	0.02	168.000	0.01	208.000	0.03	0.12398E-05	1.803	
8012	M	MLC	48.92	40.000	41.92	112.000	32.52	176.000	50.66	0.54091E-02	1.566	

END OF NETWORK SELECTION PROCESS

07/04/75

06065 2,314,710 (2013 PEAK HOUR - CASE 2)

SUMMARY OF DEMANDS AVE DAY 15 ICAM

DEMAND DISTRICT	SUM OF RELATIVE DEMANDS	TOTAL DEMAND WITHOUT FACTORS ML/C	PEAKING FACTOR	TOTAL DEMAND WITH PEAKING FACTOR ML/D	TOTAL DEMAND WITH MULTIPLIER ML/D	SPECIAL FLOWS PL/D	TOTAL DEMAND ML/D
1 BAGBAG	297.556	100.000	1.750	175.000	175.000	0.0	175.000
2 BALARAI	213.930	100.000	1.750	175.000	175.000	0.0	175.000
3 BALARAS	162.500	100.000	1.750	175.000	175.000	0.0	175.000
4 BKNITAPS	59.030	100.000	1.750	175.000	175.000	0.0	175.000
5 BALARAGR	-322.352	100.000	1.750	175.000	175.000	0.0	175.000
6 PASIGGR	264.520	100.000	1.750	175.000	175.000	0.0	175.000
7 SANJUAN	74.690	100.000	1.750	175.000	175.000	0.0	175.000
8 BALARAT	22.570	100.000	1.750	175.000	175.000	0.0	175.000
9 ESPIRIPS	79.120	100.000	1.750	175.000	175.000	0.0	175.000
10 MAKATIFES	87.660	100.000	1.750	175.000	175.000	0.0	175.000
11 CAPITLPS	4.040	100.000	1.750	175.000	175.000	0.0	175.000
12 FTBONIFES	-18.900	100.000	1.750	175.000	175.000	0.0	175.000
13 PASAYPS	27.670	100.000	1.750	175.000	175.000	0.0	175.000
TOTAL		1300.000		2275.000	2275.000	0.0	1608.051

07/04/75

BLCKS 2,3,4,5,6 (2015 PEAK FOUR - LANE 2)

PIPE NO	NUDES	CI4	L	H-W	K-VALUE	FLUX	MP3-CX	HEADLOSS
NC	FRCP-ID	MM	MTRS	C			MP3-CX	MT MT/1000 CX
200	201	200	500	105	0.658E-02	-43.40	2.61	7.09
201	202	201	500	105	0.585E-02	-35.79	2.15	4.41
202	203	203	300	105	0.152E-03	-7.94	1.33	6.94
203	204	203	300	60	0.198E-03	0.0	0.0	0.0
204	206	202	500	105	0.161E-01	-31.60	1.50	5.63
206	208	206	500	110	0.274E-02	-28.23	1.70	1.82
208	210	208	900	110	0.203E-03	-15.64	0.29	0.06
209	211	210	900	110	0.268E-03	-12.12	0.24	0.03
210	206	214	500	326	0.477E-02	7.23	0.44	0.19
212	214	226	500	340	0.497E-02	2.27	0.14	0.02
213	211	212	900	110	0.192E-03	0.0	0.0	0.0
214	226	228	300	65	0.312E-00	-6.76	1.13	10.74
216	228	230	300	65	0.222E-03	-8.27	1.40	11.36
217	218	216	900	110	0.745E-03	8.01	0.15	0.04
218	218	220	900	263	0.220E-03	-45.13	0.84	0.25
220	217	218	300	120	0.687E-01	-10.67	0.79	1.21
220	217	218	400	130	0.144E-01	-10.67	1.02	1.21
222	224	217	300	1040	0.183E-00	4.30	0.72	2.73
224	224	222	400	60	0.194E-00	-2.60	0.23	0.98
224	224	222	2200	140	0.100E-04	495.21	1.54	0.98
226	222	220	400	500	0.195E-01	4.22	0.40	0.29
226	222	220	2200	500	0.215E-05	475.46	1.48	0.60
228	222	236	2200	1300	0.820E-05	423.39	1.32	0.60
228	223	220	1350	1600	0.385E-03	127.24	1.05	1.46
230	220	238	1050	700	0.216E-03	134.27	1.83	2.41
232	228	234	400	680	0.818E-01	-6.53	0.61	2.68
234	234	232	300	800	0.103E-00	13.55	2.33	13.42
236	234	236	500	65	0.178E-01	-28.02	1.69	8.52
237	236	230	500	60	0.206E-01	-11.21	0.67	1.81
238	234	251	400	750	0.917E-01	-5.61	0.53	2.23
239	238	251	500	60	0.598E-01	10.28	0.62	4.47
240	253	252	600	700	0.325E-02	26.18	1.51	2.53
240	253	252	750	700	0.892E-03	72.19	1.56	2.53
241	244	246	600	537	0.252E-02	35.50	1.50	1.91
242	244	246	750	537	0.484E-03	72.63	1.54	1.91
242	238	240	750	350	0.466E-03	-3.66	0.10	0.01
243	238	243	1200	300	0.617E-04	223.00	2.33	1.38
244	240	242	750	1450	0.270E-02	-13.24	0.35	0.32
245	244	253	600	700	0.325E-02	37.66	1.58	2.75
245	244	253	750	700	0.892E-03	76.60	2.05	2.75
246	242	250	400	900	0.728E-01	-1.50	0.18	0.24
246	242	248	400	750	0.606E-01	-13.17	1.24	7.18
250	246	248	600	1396	0.845E-02	40.61	1.71	8.08
252	246	254	600	750	0.600E-02	34.16	2.26	9.75
253	808	271	300	85	0.247E-00	8.35	1.40	12.58
254	252	258	600	1075	0.505E-02	55.49	2.15	7.74
254	252	250	600	1075	0.426E-02	56.66	2.38	7.74
255	251	255	400	1000	0.105E-00	-4.67	0.44	1.83
256	254	257	600	750	0.600E-02	34.64	1.46	4.30
257	268	273	300	85	0.273E-00	-3.66	0.65	3.33

PLUCKS 2.734560 (2.735 PEAK FLUR - CASE 2)

PIPE NC	HIGGES FROM-TO	DIA MM	L MTRS	H-K C	K-VALUE	FLUX	VEL-- MPS-CK	HEADLOSS MY MTL/CCC CK	
4119	268	273	300	1050-	0.124E-00	5.50	0.90	3.33	3.10 HI
258	248	262	400	850-	0.545E-01	15.65	1.49	5.09	10.65 HI
804	803	802	600	300-	0.101E-02	22.18	1.35	1.12	3.72 HI
806	802	804	500	700-	0.615E-02	17.42	1.05	1.87	2.67 HI
807	804	805	600	400-	0.241E-02	22.10	0.93	0.75	1.67
808	804	805	715	650-	0.124E-02	25.64	0.89	0.67	1.03
811	806	809	300	600-	0.825E-03	45.22	1.44	1.14	2.27 HI
812	806	807	600	600-	0.173E-00	4.26	0.71	2.53	3.61 HI
812	808	808	300	300-	0.205E-02	46.35	1.69	2.53	2.01 HI
812	805	808	300	300-	0.781E-01	3.40	0.57	0.75	2.52 HI
814	806	810	715	850-	0.122E-02	22.23	1.35	0.75	2.52 HI
819	810	268	300	800-	0.162E-02	33.56	0.10	0.02	0.02 LC
819	810	268	300	800-	0.206E-00	7.24	1.23	8.35	10.43 HI
822	822	824	1104	1500-	0.112E-00	10.26	1.13	9.35	10.43 HI
1208	216	230	2200	590-	0.376E-04	76.18	0.67	0.12	0.38 LC
1210	230	236	2200	750-	0.321E-04	64.42	0.80	0.07	0.48 LC
1212	236	256	2200	1600-	0.427E-05	280.46	0.87	0.15	0.25 LC
1216	216	216	900	10-	0.116E-04	636.51	1.93	1.80	1.13 LC
1218	256	260	2200	1100-	0.706E-05	61.6	0.0	0.0	0.0 LC
1220	246	262	600	500-	0.796E-05	528.20	1.64	0.88	0.80 LC
1221	262	263	400	400-	0.235E-02	17.56	0.73	0.47	0.95 LC
1250	245	451.6	600	700-	0.115E-01	14.24	1.34	1.85	4.63 HI
1252	247	249	600	2200-	0.225E-02	6.6	0.0	0.0	0.0 LC
1254	736	247	750	1000-	0.103E-01	8.60	0.37	0.58	0.26 LC
1260	224	232	1032	400-	0.147E-02	15.67	0.42	0.25	0.25 LC
1801	268	807	400	400-	0.134E-03	10.79	0.01	0.00	0.00 LC
1803	807	809	500	520-	0.394E-02	33.17	1.31	1.91	4.44 HI
1805	805	811	600	350-	0.164E-02	35.70	1.49	1.23	3.53 HI
1809	805	811	600	520-	0.274E-02	41.60	1.74	2.43	4.68 HI
1811	800	813	750	500-	0.682E-03	47.49	1.28	0.88	1.75 LC
1813	813	805	750	500-	0.637E-03	45.42	1.32	0.88	1.75 LC
1813	813	805	750	1150-	0.157E-02	42.53	1.15	1.66	1.44 LC
1813	813	805	750	1150-	0.147E-02	44.88	1.19	1.66	1.44 LC
1814	812	805	1200	700-	0.104E-03	58.64	0.52	0.42	0.55 LC
1816	814	812	1200	1285-	0.191E-03	53.54	0.98	0.86	0.67 LC
1818	815	814	1200	233-	0.247E-04	58.45	1.03	0.17	0.73 LC
1821	736	738	900	324-	0.194E-03	133.35	2.46	1.65	5.21 HI
1822	820	736	1050	1187-	0.258E-03	145.23	2.04	3.59	3.03 HI
1824	6115	820	1500	1074-	0.540E-04	153.69	1.02	0.60	0.56 LC
2002	203	8001	300	300-	0.421E-01	12.20	2.04	4.52	13.09 HI
2000	230	800	300	800-	0.102E-00	2.10	0.35	0.40	0.51 LC
2001	800	820	400	250-	0.782E-02	2.10	0.20	0.03	0.12 LC
2003	200	801	2200	900-	0.601E-05	255.47	0.93	0.23	0.26 LC
2043	2043	244	1171	176-	0.261E-04	149.28	1.64	0.28	1.61 LC
4122	2043	244	900	176-	0.556E-04	73.62	1.37	0.28	1.61 LC
4238	238	824.6	600	689-	0.308E-02	0.0	0.0	0.0	0.0 LC
4246	256	238	2200	250-	0.165E-05	55.92	0.31	0.01	0.03 LC
4800	5800	800	800	29-	0.424E-04	57.54	1.54	0.08	2.67 HI

BLUES 2.3.1.5.6 (2015 PEAK FLOW - CASE 2)

PIPE NO	NODES FROM-TO	DIA IN	L FTS	H _W C	K-VALUE	FLOW MPS-CK	--VEL-- MPS-CK	--HEADLOSS FT MI/1000 CK
5800	300	900	29.	135	0.152E-04	100.28	1.37	0.08
7010	605	810	1200	125	0.151E-03	100.58	1.12	0.82
5060	8001	482	2500	130	0.903E-05	287.27	0.89	0.32
5061	6182	216	2300	135	0.101E-04	287.27	0.89	0.36
5	530	176	400	65	0.842E-01	2.57	0.24	0.61
6	113	154	430	60	0.578E-01	5.25	0.50	2.19
7	114	153	400	105	0.520E-01	13.70	1.29	6.63
8	116	152	400	105	0.477E-01	8.87	0.83	2.72
10	156	15	666	95	0.675E-02	22.30	1.10	4.21
11	18	165	300	60	0.234E-00	7.13	1.15	2.56
12	20	164	600	105	0.602E-02	40.62	1.70	5.73
13	20	167	2860	128	0.114E-03	1289.82	2.37	0.66
15	32	169	584	115	0.377E-02	42.68	1.89	3.94
16	193	192	300	65	0.234E-00	6.74	1.13	11.42
17	35	193	400	65	0.495E-01	15.10	1.42	7.55
18	137	171	300	350	0.674E-01	10.38	1.74	5.14
19	136	170	300	750	0.102E-00	9.94	1.66	9.66
20	70	41	400	300	0.130E-01	6.40	0.79	2.23
21	66	173	300	480	0.714E-01	4.21	0.72	1.07
22	65	172	400	1050	0.456E-01	5.58	0.53	1.20
23	65	180	400	400	0.190E-01	17.26	0.59	1.49
24	181	76	400	1080	0.468E-01	16.77	1.58	8.67
25	47	174	300	620	0.265E-00	5.51	0.52	6.25
26	53	175	500	390	0.136E-01	15.82	0.30	10.08
27	178	55	500	628	0.136E-01	15.86	1.15	5.13
29	56	182	300	400	0.171E-00	1.57	0.33	1.50
30	64	184	1200	400	0.171E-01	8.38	0.79	0.60
31	183	62	750	500	0.547E-02	4.82	0.13	0.01
32	106	186	1350	1050	0.122E-03	153.68	1.27	1.36
33	622	185	1500	750	0.523E-04	155.59	1.07	0.84
34	112	132	1500	250	0.159E-04	175.92	1.18	0.23
35	115	191	766	600	0.761E-03	40.45	1.04	1.20
36	115	191	2000	600	0.644E-05	532.42	2.00	0.72
37	156	109	900	500	0.383E-03	65.44	1.29	0.99
38	158	156	900	450	0.345E-03	86.28	1.60	1.33
39	155	6110	600	770	0.423E-02	0.0	0.0	0.0
43	54	3	728	785	0.420E-02	3.74	0.16	0.05
44	19	6	400	800	0.347E-01	14.14	1.33	0.87
47	106	105	1050	600	0.501E-03	25.26	0.35	0.20
48	59	25	1050	240	0.146E-03	14.24	0.61	0.65
49	84	83	500	323	0.133E-01	3.58	0.22	0.16
50	100	58	900	800	0.142E-02	37.52	0.70	1.48
52	43	132	300	350	0.815E-01	5.07	1.52	4.87
53	32	18	584	450	0.209E-02	8.65	0.39	0.17
54	126	17	750	1400	0.691E-02	25.04	1.04	6.11
58	123	124	750	112	0.376E-03	35.04	1.04	0.33
59	123	18	750	120	0.402E-03	35.04	1.04	0.36
62	40	122	750	130	0.417E-03	0.0	0.0	0.0

WELLS 2,3,4,5,6 (2010) PEAK FLOW - CASE 2

PIPE NO	NUCES FCN-FC	DIA MM	L NTRS	HWK C	K-VALUE	FLOW	VEL-- MPS--CX	HEADLOSS MT NY/1000 CX		
67	82	80	900	132	105	0.1115-03	5.24	0.10 LO	0.00	0.02 LC
68	35	45	500	600	105	0.3775-02	15.25	1.16	2.10	3.50 HI
72	58	119	1200	50	85	0.1525-04	46.71	0.45 LO	0.02	0.38 LC
76	60	57	1050	600	85	0.6005-03	C-C	C-C LO	C-C	0.0 LC
79	51	193	400	700	85	0.3505-03	C-C	0.0 LO	C-C	0.0 LC
80	100	99	650	300	60	0.8525-01	5.74	0.54 LO	2.18	3.11 HI
82	107	104	1303	1700	70	0.2455-02	7.88	0.28 LO	0.16	0.53
84	94	55	400	370	60	0.4925-03	77.29	0.69 LO	1.56	0.52
86	107	106	1532	1100	75	0.4525-01	5.51	0.89	2.93	7.92 HI
87	135	194	1050	350	110	0.1285-03	132.07	0.85	1.09	0.95
88	109	157	900	350	110	0.1275-03	102.48	1.40	0.67	1.91
89	107	108	900	1400	110	0.2685-03	47.46	0.68	0.34	0.57
91	51	179	300	1479	70	0.1575-02	84.19	1.56	3.94	2.82 HI
92	114	113	350	1300	75	0.5675-02	34.35	1.43	3.94	2.82 HI
93	151	114	766	800	130	0.2585-02	10.78	0.29 LO	0.21	0.35 LC
94	116	115	2000	510	65	0.6335-00	3.64	0.62 LO	4.03	3.10 HI
95	631	61	1200	631	75	0.2015-00	5.64	0.62 LO	0.50	1.12
96	610	631	1200	3000	135	0.1025-02	36.58	1.00	0.50	1.15
97	185	105	1500	1150	135	0.8555-05	512.99	1.93	0.50	1.15
101	51	3	723	755	120	0.1125-04	520.69	1.96	1.20	1.15
102	82	83	500	589	135	0.3775-03	53.67	0.79 LO	0.65	1.28
103	101	100	1528	600	135	0.6055-03	43.24	1.09	0.65	1.28
104	22	36	1050	611	85	0.5475-03	550.19	2.07	0.40	0.64
105	37	38	1050	217	85	0.1925-03	42.20	0.65 LO	0.40	0.64
106	38	39	1050	657	135	0.2755-04	172.65	1.19	0.40	0.64
107	36	37	1050	320	85	0.9125-03	62.93	0.67 LO	2.01	0.67
108	74	70	400	680	105	0.1315-03	182.60	1.22	2.01	0.67
109	73	71	400	540	105	0.7985-04	148.81	1.00	0.84	0.73
110	104	101	1528	650	60	0.1355-00	1.77	0.50 LO	2.46	1.43
111	43	33	300	300	120	0.1385-02	48.62	1.38	1.84	2.44 HI
112	43	171	300	430	105	0.8615-02	4.22	0.37 LO	0.25	0.43 LC
113	33	170	300	500	85	0.5625-04	145.70	0.94	0.57	0.95
114	39	37	1050	680	85	0.2565-03	85.29	1.16	1.34	2.19 HI
115	174	67	300	550	85	0.1275-03	84.53	1.18	0.49	2.25 HI
116	15	14	500	1200	85	0.4965-04	51.49	0.70 LO	0.19	2.25 HI
117	5604	166	600	200	85	0.4065-03	51.49	0.05 LO	0.01	0.01 LC
118	6000	27	1050	1230	60	0.3955-01	-0.54	0.05 LO	0.01	0.01 LC
119	47	48	300	580	60	0.6455-01	-2.51	0.26 LO	0.45	0.83
120	164	19	600	800	75	0.7055-04	175.76	1.16	1.15	1.77
121	66	69	400	300	90	0.2665-00	2.66	0.44 LO	1.26	1.43
					85	0.1125-00	-1.58	0.33 LO	0.40	0.52
					85	0.8065-01	-1.54	0.26 LO	0.20	0.35 LC
					65	0.2355-00	-2.89	0.48 LO	1.68	3.05 HI
					65	0.4955-01	-2.16	0.13 LO	0.21	0.17 LO
					85	0.1075-02	76.31	2.55	3.28	18.40 HI
					85	0.7175-03	48.13	0.66 LO	0.94	0.76
					105	0.1075-00	1.15	0.19 LO	0.13	0.23 LO
					105	0.4815-02	16.16	0.68 LO	0.83	1.04
					105	0.1565-01	27.18	2.50	7.07	19.64 HI

07/04/95

WELLS 2.3...569 (2015 PEAK HOUR - CASE 2)

PIPE NO	NODED FROM-TO	DIA MM	L FTAS	H-M C	K-VALUE	FLOW	VEL-MPS	CK	HEADLOSS M	LOSS CK
122	22	18	1050	1271	85	0.741E-03	74.51	1.04	2.28	1.75
123	59	58	1200	2000	85	0.635E-03	64.21	0.67 LU	1.35	0.68
7812	59	119	2200	2000	140	0.126E-04	534.60	1.63	1.37	0.65
7813	119	59	2200	520	140	0.328E-05	553.20	1.72	0.39	0.76
124	61	59	1200	1000	85	0.304E-03	65.87	0.69 LU	0.71	0.71
7811	61	59	2200	1000	140	0.631E-05	524.21	1.66	0.71	0.71
125	63	64	1218	760	125	0.105E-03	22.62	0.23 LO	0.03	0.01 LC
126	184	105	1200	800	110	0.151E-03	-6.68	0.07 LO	0.01	0.01 LC
127	119	62	750	672	65	0.232E-02	18.11	0.48 LU	0.71	1.05
128	55	178	600	1000	85	0.890E-02	-0.17	0.01 LO	0.00	0.00 LO
130	67	68	300	200	60	0.592E-01	8.39	1.40	5.10	25.45 HI
131	81	80	600	325	105	0.196E-02	1.11	0.05 LO	0.00	0.01 LC
132	101	224	500	910	60	0.318E-01	6.42	0.39 LO	1.17	1.25
135	165	19	300	462	60	0.225E-00	-5.64	0.98	4.01	13.01 HI
136	169	35	504	670	120	0.355E-02	35.40	1.56	2.65	3.56 HI
137	35	136	300	680	105	0.120E-00	-7.03	1.18	4.44	6.52 HI
130	22	167	2860	600	128	0.129E-05	-1252.05	2.30	0.68	1.12
139	80	73	500	272	65	0.578E-02	6.40	0.02 LG	0.00	0.01 LO
140	69	70	400	300	105	0.120E-01	18.78	1.77	2.57	9.90 HI
141	71	68	300	250	60	0.124E-00	-2.81	0.47 LO	0.84	3.36 HI
142	77	76	400	150	105	0.650E-02	-6.51	0.80	0.34	2.28 HI
143	186	223	1350	1000	105	0.168E-03	149.50	1.23	1.23	1.23
144	50	45	500	470	105	0.607E-02	-15.54	0.56	1.16	2.46 HI
145	45	50	500	460	105	0.672E-02	21.11	1.39	2.26	4.50 HI
146	51	50	750	516	105	0.105E-02	-61.07	1.63	2.12	4.12 HI
147	50	52	500	700	105	0.102E-01	-30.42	1.83	5.71	8.16 HI
148	48	49	500	400	105	0.585E-02	31.51	1.50	3.48	8.71 HI
149	47	48	500	630	105	0.521E-02	74.22	0.25 LO	0.13	0.21 LC
7817	47	48	1500	630	135	0.275E-04	57.65	0.65 LO	0.13	0.21 LC
7818	56	100	2200	1250	140	0.705E-05	502.11	1.56	0.79	0.62
7819	100	224	2200	900	140	0.568E-05	512.57	1.61	0.60	0.67
150	47	46	500	660	105	0.965E-02	22.60	1.36	2.11	4.71 HI
151	42	46	692	380	100	0.125E-02	-13.32	1.05	0.83	2.17 HI
152	33	42	600	729	105	0.435E-02	-24.92	1.04	1.69	2.32 HI
153	40	52	300	300	105	0.578E-01	8.67	0.11 LO	0.03	0.05 LC
7816	48	52	1500	300	135	0.131E-04	62.45	0.42 LO	0.03	0.05 LC
154	52	53	500	354	80	0.857E-02	22.52	2.34	7.54	21.30 HI
155	53	72	500	767	80	0.186E-01	16.28	0.58	3.25	4.24 HI
156	67	175	500	1000	80	0.242E-01	-13.32	0.80	2.93	2.93 HI
157	46	173	626	1300	125	0.646E-02	-15.12	0.73 LO	1.05	0.84
158	66	65	500	713	100	0.114E-01	6.18	0.37 LO	0.33	0.47 LO
159	59	63	1200	604	105	0.124E-03	43.06	0.45 LO	0.13	0.22 LC
160	81	72	750	149	105	0.302E-03	-1.57	0.05 LO	0.00	0.01 LC
161	72	73	712	146	80	0.632E-03	3.12	0.09 LO	0.01	0.04 LC
162	73	74	400	180	105	0.780E-02	2.57	0.24 LO	0.04	0.25 LC
163	74	77	300	570	60	0.283E-00	-0.46	0.11 LO	0.13	0.23 LC
164	66	67	500	300	100	0.400E-02	35.19	2.15	3.62	12.06 HI
165	90	83	500	422	105	0.617E-02	13.68	0.79 LO	0.72	1.71
166	90	93	500	601	105	0.875E-02	-16.07	0.97	2.50	2.50 HI
167	111	98	900	1200	70	0.212E-02	-2.24	0.04 LO	0.01	0.01 LC

07/24/95

BUCKLE 23.4.566 (2015 PEAK PUMP - CASE 2)

PIPE NO	NUDES	DIA	L	H-A	K-VALUE	FLOK	VEL--	HEADLOSS
	FRCTC	MM	MTRS	C			MPS--CK	MT M/1000 CK
517	514	538	300	1100.	105	0.194E-00	5.25	4-18 3.80 HI
518	513	516	300	500.	80	0.146E-00	-1.59	0-52 1.04
519	542	514	500	170.	105	0.245E-02	18.62	0.56 3.25 HI
520	517	516	300	150.	85	0.392E-01	-2.09	0.35 LO 1.02
521	517	518	300	460.	85	0.120E-00	13.59	15-01 32.63 HI
522	517	519	900	1033.	110	0.792E-03	112.74	5-00 4.84 HI
523	519	518	300	280.	85	0.725E-01	14.28	2-39 10.02
524	517	520	300	700.	115	0.104E-00	12.57	11-31 16.15 HI
525	520	521	300	500.	115	0.744E-01	5.60	4-90 9.80 HI
526	545	522	300	650.	90	0.152E-00	-2.69	0.45 LO 1.46
527	523	544	300	775.	105	0.126E-00	-1.29	0-22 LO 0.28 LO
528	543	523	300	775.	105	0.136E-00	1.42	0-24 LO 0.34 LO
529	525	524	627	555.	125	0.195E-02	68.02	4-83 8.70 HI
530	515	525	627	1255.	125	0.441E-02	50.70	6-34 5.05 HI
531	515	525	600	1255.	130	0.505E-02	46.56	1-56 5.05 HI
532	540	552	300	450.	75	0.148E-00	0.40	0-07 LU 0.06 LO
541	542	517	1200.	110.	110	0.208E-04	13.61	0-19 1.70
542	542	539	627	518.	125	0.192E-02	42.93	2-01 3.87 HI
543	539	527	627	966.	125	0.340E-02	24.24	2-36 2.44 HI
544	527	520	400	512.	85	0.228E-01	22.16	11-05 21.55 HI
545	528	529	400	290.	95	0.186E-01	16.64	3-32 11.44 HI
546	525	530	400	410.	85	0.263E-01	-23.46	2-21 9.06
547	525	530	400	410.	85	0.417E-01	-12.74	5-34 6.08 HI
548	525	531	400	800.	95	0.843E-01	0.11	0-02 0.03 LO
549	522	531	400	964.	95	0.502E-01	20.28	13-25 13.74 HI
550	522	531	400	964.	95	0.502E-01	20.28	13-25 13.74 HI
551	551	532	400	750.	60	0.517E-01	11.60	8-86 11.81 HI
552	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
553	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
554	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
555	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
556	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
557	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
558	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
559	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
560	535	533	400	800.	60	0.842E-01	14.47	1-36 11.88
561	514	537	300	900.	105	0.122E-00	4.00	0-67 LO 1.61
562	546	541	300	1100.	95	0.229E-00	5.20	0-60 0.04
563	533	522	780	282.	85	0.698E-03	28.26	0-60 0.04
571	516	542	300	10.	85	0.268E-02	-4.07	0-68 LU 0.04
572	524	543	300	700.	105	0.129E-00	4.13	0-65 LO 1.71
573	522	544	300	700.	105	0.122E-00	4.00	0-67 LO 1.61
574	541	545	300	600.	105	0.106E-00	-8.24	1-38 5.24
575	510	546	300	1100.	85	0.284E-00	10.24	1-71 21.28
576	512	547	300	800.	115	0.115E-00	5.66	1-61 7.93
577	537	548	300	650.	95	0.138E-00	1.25	0-21 LO 0.21
578	521	549	300	600.	105	0.106E-00	3.46	0-58 LO 1.05
579	533	551	400	550.	65	0.580E-01	23.07	2-17 15.37
580	525	526	300	700.	85	0.182E-00	9.69	1-62 12.23
600	600	601	300	1000.	130	0.115E-00	-3.46	0-58 LO 1.18
602	602	641	400	680.	115	0.245E-01	21.76	2-05 7.47
603	602	634	600	900.	120	0.423E-02	41.57	1-75 4.28

PIPE NO	NOSES FROM-TO	DIA MM	L MTRS	H-X C	K-VALUE	FLUX	MPS-CK	VEL--	HEADLOSS
									MT MT/1000 CK
604	607	603	600	500	0.238E-02	72.50	6.54	0.75	1.50
4061	607	603	900	500	0.242E-03	72.53	1.37	0.75	1.50
610	609	610	1525	1080	0.584E-04	260.72	2.00	1.82	2.00
611	609	610	1525	2030	0.110E-01	201.56	1.30	2.03	1.00
616	610	616	1525	950	0.514E-04	24.18	0.22	0.04	0.04 LC
617	610	617	2640	144	0.697E-04	505.17	1.10	0.07	0.50 LC
620	620	621	1200	337	0.634E-04	155.26	1.62	0.73	2.15 HI
4120	620	621	1200	337	0.428E-04	150.54	1.59	0.73	2.15 HI
621	621	622	1200	730	0.128E-03	127.30	1.33	1.09	1.49
622	622	622	600	890	0.110E-02	26.76	1.12	2.43	2.43 HI
4062	622	622	750	890	0.122E-02	56.68	1.52	2.16	2.43 HI
623	621	623	500	800	0.128E-01	20.70	1.25	3.53	4.41 HI
5623	621	623	900	800	0.420E-03	131.63	2.45	3.53	4.41 HI
624	623	624	300	750	0.122E-00	15.69	2.62	21.62	28.82 HI
625	625	644	300	850	0.150E-00	4.65	0.81	2.79	3.28 HI
626	626	645	300	700	0.230E-00	6.28	1.05	6.89	9.85 HI
627	627	626	300	1100	0.164E-00	12.58	2.17	18.85	17.12 HI
628	621	627	400	450	0.165E-01	10.04	0.94	1.18	2.62 HI
5628	621	627	600	450	0.182E-02	32.97	1.38	1.18	2.62 HI
629	5019	630	130	140	0.216E-04	164.66	1.35	0.28	1.97
630	5019	630	180	224	0.552E-05	344.21	1.45	0.28	1.23
631	630	167	166	2290	0.103E-03	210.03	1.13	2.02	0.88
4124	630	107	1200	2290	0.254E-03	111.77	1.23	2.02	0.88
632	636	609	1986	1286	0.192E-04	503.07	1.52	1.94	1.50
633	507	616	2100	5670	0.597E-04	451.43	1.70	5.88	1.04
634	603	600	300	770	0.136E-00	4.68	1.62	9.08	11.75 HI
635	623	603	300	1300	0.229E-00	4.71	0.79	4.04	3.10 HI
636	630	112	1500	1250	0.682E-03	108.53	2.82	4.04	3.10 HI
637	634	603	600	600	0.796E-04	161.38	1.21	0.57	0.57 LC
640	535	600	300	1400	0.408E-00	4.50	4.75	6.60	4.72 HI
641	627	633	464	950	0.145E-01	25.22	1.76	5.71	6.01 HI
642	642	401	300	800	0.141E-00	2.61	0.47	0.95	1.19
643	641	642	300	750	0.122E-00	7.64	1.28	5.70	7.55 HI
644	607	535	900	550	0.675E-02	48.56	1.28	1.72	3.14 HI
4144	607	535	600	550	0.222E-02	26.21	1.52	1.72	3.14 HI
645	624	644	300	700	0.123E-00	1.61	0.27	0.30	0.43 LC
646	645	625	300	700	0.220E-00	1.85	0.31	0.72	1.02
700	708	726	300	800	0.141E-00	1.05	0.18	0.15	0.15 LC
701	700	703	250	1100	0.515E-00	3.25	0.50	5.95	5.41 HI
703	726	742	300	1100	0.194E-00	3.24	0.54	1.70	1.55
704	728	730	300	750	0.176E-00	5.82	0.97	6.57	6.10 HI
705	705	708	300	900	0.107E-00	4.78	0.80	1.93	2.15 HI
706	712	720	500	255	0.504E-02	10.18	0.61	0.37	1.43
707	742	725	300	1300	0.229E-00	0.91	0.15	0.19	0.15 LC
708	720	730	500	929	0.136E-01	10.18	0.61	1.00	1.07
709	722	712	626	256	0.507E-03	28.59	1.11	0.46	1.81
711	105	713	250	1700	0.154E-01	1.62	0.25	1.61	0.55
712	722	724	600	50	0.329E-03	24.34	1.62	0.12	2.43 HI
713	711	713	400	250	0.230E-01	1.24	0.68	0.90	3.55 HI

37734/95

WELLS 2,3,4,5,6 (2215 PEAK FLUX - CASE 2)

PIPE NC	NUDES FRM-TC	OIA MM	L MTRS	H-K C	K-VALUE	FLUX	--VEL--		--HEADLOSS	
							MPS-CK	MT	MT/1000	CK
714	724	730	600	1000	0.602E-02	13.56	C.58	LO	0.78	0.78
715	714	712	600	400	0.241E-02	-16.16	Z.68	LO	0.42	1.04
716	714	716	600	600	0.361E-02	6.71	C.28	LO	0.12	0.20
717	716	717	500	150	0.215E-02	-2.95	C.18	LO	0.02	0.11
718	717	710	500	800	0.117E-01	C.07	C.60	LO	C.00	0.00
719	719	721	500	900	0.122E-01	-4.26	C.26	LO	0.19	0.21
721	729	721	400	200	0.867E-02	7.27	C.68	LO	0.34	1.71
722	741	748	400	750	0.235E-01	13.95	1.31		3.10	4.14
723	729	1021	500	200	0.292E-02	-7.27	0.44	LO	0.12	0.58
724	717	732	300	1300	0.291E-00	2.61	C.90	LO	2.24	2.24
726	730	734	648	500	0.175E-02	8.36	C.30	LO	0.09	0.18
732	704	747	913	1000	0.853E-03	-50.49	C.91		1.22	1.22
734	704	700	913	1000	0.852E-03	22.73	C.41	LO	0.28	0.28
735	747	712	750	500	0.858E-03	62.11	1.67		1.82	3.63
737	700	622	913	1200	0.102E-02	-10.93	C.20	LO	0.09	0.07
742	704	608	500	400	0.788E-02	-8.49	C.52	LO	0.42	1.04
743	760	741	400	500	0.355E-01	-10.28	C.57		2.68	5.37
744	108	705	465	600	0.101E-01	10.67	C.74	LO	0.84	1.40
500	502	506	816	2730	0.266E-02	53.68	1.21		4.25	1.56
501	900	508	816	600	0.582E-03	28.13	C.64	LO	0.28	0.47
504	508	912	600	750	0.414E-02	15.70	C.66	LO	0.68	0.51
506	512	914	600	1100	0.607E-02	10.19	C.42	LO	0.44	0.40
1000	914	1002	2000	1627	0.201E-04	493.24	1.82		1.88	1.16
1002	1002	1008	2000	1960	0.243E-04	472.47	1.78		2.17	1.11
1005	1004	916	500	1750	0.702E-02	48.30	2.02		5.31	5.32
1006	1006	1004	750	500	0.683E-03	70.25	1.68		1.80	3.60
1008	1008	1006	2200	1110	C.752E-06	660.57	1.43		0.07	0.62
1012	1006	1016	2200	1325	0.959E-05	375.18	1.19		C.57	0.43
1018	6030	1016	2100	1345	0.125E-04	-230.67	C.79	LO	0.29	C.22
1103	412	187	1200	874	0.130E-03	145.56	1.52		1.32	1.51
7800	412	187	2000	874	0.538E-05	602.44	2.27		1.32	1.51
1105	11	8	500	1200	0.127E-01	12.19	C.73	LO	1.41	1.17
1107	158	7	3000	958	0.142E-05	1660.60	2.78		1.31	1.37
1108	135	6	1500	1601	0.802E-04	277.63	1.59		2.02	1.26
1109	135	135	1500	500	0.251E-04	272.28	1.82		C.81	1.42
1111	138	10	450	623	0.119E-01	-16.45	1.22		2.12	3.41
1112	13	12	900	750	0.454E-03	16.55	2.24		2.39	3.18
1113	155	13	1050	1540	0.440E-02	142.55	2.36		6.10	3.96
1114	188	117	1200	592	C.882E-04	127.58	1.44		0.80	1.36
7902	188	117	2000	592	0.635E-05	565.43	2.14		C.80	1.36
1115	161	14	600	760	0.357E-02	4.58	C.19	LO	0.06	0.08
1116	21	189	600	1000	0.430E-02	28.14	1.99		1.84	1.84
1117	190	28	600	700	0.305E-02	-15.15	2.90		0.72	1.02
1120	7	20	2800	700	0.146E-05	1378.70	2.65		0.95	1.36
1121	187	188	1200	414	0.125E-06	140.54	1.47		1.42	1.42
7601	187	188	2000	414	0.444E-05	583.24	2.19		C.59	1.42
1122	21	116	600	950	0.120E-06	-28.20	1.18		2.16	2.28
5031	21	116	750	950	0.130E-02	-54.54	1.47		2.16	2.28
1125	29	113	500	1307	0.145E-01	10.54	C.66	LO	1.25	0.56

PIPE NO	NUOES	DIA	L	MW	K-VALUE	FLUX	--VEL--	--HEADLOSS			
NO	FRCM-TC	MM	MTRS	C			MPS-CX	MT MT/1000 CX			
1127	27	29	600	824	120	0.207E-02	-22.70	0.99	1.36	1.65	LC
1128	185	170	600	750	125	0.227E-02	6.87	0.37	0.19	0.25	LC
1129	28	29	500	2000	120	0.225E-01	5.69	0.58	1.58	0.77	LC
7809	28	29	2000	2000	135	0.221E-04	417.22	1.57	1.58	0.77	LC
7810	29	61	2000	1250	135	0.134E-04	381.22	1.43	0.81	0.65	LC
1130	162	14	450	1150	120	0.215E-01	15.44	1.44	5.34	4.64	HI
1131	31	168	2200	576	130	0.417E-05	615.57	1.53	0.62	1.07	LC
4121	31	168	1200	576	135	0.744E-04	170.67	1.37	0.62	1.07	LC
1132	32	31	2600	950	130	0.305E-05	945.60	2.11	1.00	1.05	LC
1133	6120	4122	750	2045	125	0.303E-02	-45.17	1.32	4.08	1.95	LC
1134	163	32	600	800	125	0.245E-02	-20.72	0.87	0.95	1.15	LC
1136	11	10	750	800	125	0.118E-02	57.60	1.55	2.16	2.70	HI
1144	2	6150	300	600	120	0.11CE-00	0.0	0.0	0.0	0.0	LC
1145	600	2	300	700	125	0.852E-01	10.22	1.71	6.60	9.43	HI
1146	182	62	500	900	120	0.512E-02	-6.40	0.39	0.28	0.36	LC
1148	137	132	2200	550	130	0.358E-05	653.64	2.06	0.67	1.22	LC
1150	136	137	2200	700	130	0.507E-05	572.53	1.78	0.65	0.92	LC
4126	136	137	1200	700	135	0.504E-04	120.74	1.26	0.65	0.92	LC
1153	128	32	2600	1450	130	0.465E-05	1040.46	2.32	1.80	1.24	LC
1154	22	120	2600	248	130	0.795E-06	1040.46	0.32	0.31	1.24	LC
1160	168	136	2600	550	130	0.395E-05	-593.45	1.85	0.54	0.59	LC
4127	168	136	1200	550	135	0.711E-04	125.16	1.31	0.54	0.59	LC
1161	8006	30	600	600	120	0.282E-02	0.0	0.0	0.0	0.0	LC
1162	30	162	450	850	120	0.142E-01	32.72	2.43	10.35	12.18	HI
1163	10	161	600	850	125	0.399E-02	21.00	1.05	1.55	1.82	LC
1164	166	11	750	700	125	0.103E-02	85.54	2.41	4.27	6.10	HI
1165	6	159	1050	818	125	0.224E-03	184.78	2.52	3.68	4.50	HI
1166	41	158	3000	1816	135	0.285E-05	1678.08	2.81	2.67	1.40	LC
1195	117	118	1050	1150	125	0.357E-03	100.25	1.37	1.81	1.45	LC
7803	117	110	2000	1250	135	0.134E-04	589.49	2.22	1.81	1.45	LC
1566	518	553	300	650	125	0.828E-01	8.60	1.47	4.65	7.15	HI
1566	518	553	300	650	130	0.770E-01	5.15	1.53	4.65	7.15	HI
1567	553	552	300	500	120	0.687E-01	8.69	1.43	3.93	7.86	HI
1628	620	628	600	400	120	0.188E-02	15.55	0.67	0.32	0.75	LC
1637	632	636	300	450	120	0.618E-01	8.40	1.41	3.19	7.08	HI
1636	631	635	200	300	120	0.297E-00	3.60	1.36	3.19	10.63	HI
1639	627	628	400	300	125	0.942E-02	-15.55	1.50	1.59	5.30	HI
1641	634	641	400	950	125	0.295E-01	20.39	1.92	1.93	8.35	HI
1642	620	644	300	1800	120	0.247E-00	12.24	2.05	2.57	14.21	HI
1643	435	436	300	1800	120	0.247E-00	0.0	0.0	0.19	0.11	LC
1701	702	701	300	1050	125	0.134E-00	-1.67	0.31	0.43	0.41	LC
1702	702	703	300	250	125	0.215E-01	-3.75	0.63	0.37	1.47	LC
1712	747	727	600	1000	125	0.436E-02	45.68	1.91	5.16	5.16	HI
1725	713	725	600	1130	120	0.383E-01	-4.66	0.38	0.51	0.45	LC
1727	727	746	600	180	120	0.846E-03	25.68	1.25	0.46	2.55	HI
1730	701	615	400	1000	125	0.314E-01	-2.60	0.81	1.69	1.65	LC
1732	746	728	400	1994	125	0.626E-01	6.33	0.63	2.14	1.07	LC
1734	693	701	400	1130	125	0.395E-01	-2.39	0.22	0.18	0.16	LC
1500	5502	507	2200	2700	130	0.195E-04	565.53	1.76	2.45	0.91	LC
1902	906	504	300	1250	120	0.172E-00	5.48	1.59	11.07	8.86	HI

ILLUSTR 2-2-64-206 (2015 FLBK FLWA - (43E 2)

PIPE NO	NODES FROM-TO	DIA PM	L FTAS	H-K	K-VALUE	FLWA	VEL--MPS--CK	HEADLOSS MT MI/1000 CK
1903	509	914	2000	480	0.594E-05	456.89	1.87	0.58
1904	510	509	2000	666	0.824E-05	502.51	1.89	0.83
1906	507	910	2200	2000	0.145E-04	542.29	1.65	1.67
2015	66	173	600	620	0.215E-02	23.21	0.97	1.07
2016	715	818	1300	460	0.888E-05	204.40	0.95	0.17
2017	807	808	300	800	0.115E-03	3.49	0.58	1.20
2018	808	741	250	430	0.152E-02	-3.49	0.84	1.57
2019	808	740	500	350	0.432E-02	-5.10	0.31	0.09
2023	506	506	400	2730	0.100E-00	7.57	0.71	4.25
4109	105	511	750	1100	0.162E-02	20.56	0.56	0.45
4400	400	600	3000	2000	0.220E-05	1455.59	2.51	1.22
4401	404	605	3000	1500	0.240E-05	1455.59	2.51	1.82
4411	412	411	3000	555	0.827E-06	1101.03	1.84	0.36
4412	6085	412	3000	2738	0.405E-05	1221.70	3.12	4.66
4825	6085	411	2000	3600	0.324E-04	577.05	2.17	5.02
4505	502	502	1800	407	0.502E-05	163.12	0.77	0.12
4618	616	5018	1500	124	0.114E-04	224.00	1.50	0.26
4711	511	711	600	550	0.240E-02	12.51	0.52	0.47
4719	718	809	500	700	0.775E-02	0.00	0.00	0.00
4726	511	726	600	7000	0.305E-02	8.45	0.35	0.16
7000	476	476	1050	1400	0.402E-03	44.22	0.60	0.45
7001	101	476	1050	400	0.114E-03	127.01	1.87	1.03
4040	476	476	1350	1400	0.102E-03	52.49	0.77	0.45
7001	741	747	1200	900	0.134E-03	178.18	1.86	2.97
7002	745	741	1200	1500	0.222E-04	216.19	2.27	0.47
7064	748	717	400	500	0.157E-01	10.45	0.98	1.21
7005	31	6122	1050	330	0.942E-04	150.65	2.06	1.02
7008	5804	16	606	200	0.271E-03	36.54	1.24	0.68
7015	6015	346	300	330	0.147E-02	8.00	0.36	0.08
7040	6030	1021	1350	276	0.232E-04	27.28	0.23	0.01
7045	630	719	1600	1700	0.352E-04	203.09	0.94	0.46
7060	132	47	2200	430	0.212E-05	648.82	2.02	0.50
8000	40	6000	1050	630	0.347E-03	58.25	0.80	0.68
5000	47	66	2200	1300	0.941E-05	504.69	1.57	0.55
9010	66	65	2200	7000	0.501E-05	355.62	1.24	0.33
5015	65	181	2200	1300	0.541E-05	384.07	1.19	0.57
9020	181	200	2200	850	0.612E-05	346.57	1.08	0.31
5036	6120	30	750	50	0.712E-04	45.17	1.32	0.10
1350	254	260	300	925	0.110E-00	5.40	1.57	6.95
1351	113	5004	600	1720	0.697E-02	35.77	1.66	6.38
1352	117	6122	750	700	0.557E-03	101.47	2.71	4.97
4502	5502	506	1000	98	0.174E-05	1460.81	1.26	0.12
259	278	277	300	750	0.195E-02	11.52	0.89	7.47
260	258	270	600	1075	0.501E-02	44.46	1.86	5.69
260	258	270	600	1075	0.436E-02	33.72	2.01	5.69
261	255	259	400	750	0.517E-01	14.70	0.35	1.04
262	264	274	600	150	0.120E-02	14.70	0.61	0.17
263	265	274	400	750	0.125E-01	14.11	1.14	0.17
264	262	269	400	1500	0.121E-00	2.72	0.26	0.78
4262	264	5264	600	750	0.227E-02	1.25	0.31	0.13

BLKKS 2,3,4,5,6,7,8,9,10,11,12,13,14,15 PEAK FLOW - CASE 23

PIPE NO	NODES FROM-TO	DIA MM	L MKS	H-W C	K-VALUE	FLUX	VEL-- MPS--CK	HEADLOSS MT MT/1000 CK
265	274	272	300	287	0.535E-02	-5.81	0.35 LO	0.15
266	270	202	600	120	0.225E-02	26.71	1.12	1.44
5266	270	282	600	130	0.284E-02	28.54	1.21	1.44
267	257	264	600	80	0.797E-02	36.44	1.11	3.43
268	272	284	500	105	0.815E-02	15.13	0.51	1.25
269	270	272	600	105	0.241E-02	23.61	0.59	0.24
270	269	293	600	75	0.728E-01	1.70	0.16 LO	0.22 LC
272	282	280	500	370	0.541E-02	26.82	2.20	11.44 HI
273	280	282	400	130	0.476E-02	27.56	2.53	17.48 HI
274	284	282	500	332	0.481E-02	-14.59	0.85	1.96
275	283	285	400	850	0.268E-01	13.55	1.27	4.60
276	286	284	400	250	0.108E-01	-25.86	2.43	4.48
278	288	286	1532	125	0.113E-04	383.42	2.46	2.76 HI
279	288	299	400	1100	0.835E-01	5.42	0.89	5.66
280	285	288	1773	600	0.171E-04	408.77	1.96	1.20
281	290	289	1773	250	0.725E-05	441.35	2.11	0.58
282	291	290	1773	450	0.121E-04	435.32	2.18	1.10
283	292	291	1773	300	0.871E-05	435.32	3.18	2.44 HI
284	292	294	1144	350	0.863E-04	435.32	0.01 LO	0.00 LC
4032	292	294	1200	350	0.452E-04	-1.27	0.01 LO	0.00 LC
285	281	301	300	600	0.257E-00	4.51	0.67 LO	3.36
5285	281	301	600	130	0.243E-02	45.65	2.03	3.36
288	830	296	1095	600	0.134E-03	1.17	0.01 LO	0.00 LC
300	297	300	1395	1100	0.245E-03	55.32	1.20	1.13
7826	297	300	1200	1100	0.142E-02	127.51	1.34	1.63
301	285	301	250	450	0.355E-00	6.56	0.14 LO	0.12
302	300	302	535	1000	0.762E-02	15.62	1.00	1.78
7827	300	302	1200	1000	0.125E-03	171.53	1.80	1.78
303	255	301	400	1900	0.728E-01	4.40	0.41 LO	1.13
824	824	278	300	550	0.142E-00	3.12	0.52 LO	1.18
5824	824	278	600	550	0.222E-02	25.55	0.24	1.18
626	824	826	300	1600	0.204E-00	3.48	0.58 LO	2.06
828	824	820	1112	160	0.345E-04	24.28	0.27 LO	0.01
830	828	830	1095	180	0.401E-04	14.49	0.18 LO	0.01
1217	265	264	400	650	0.204E-01	-3.25	0.32 LO	0.19
1219	266	265	300	400	0.510E-01	6.21	0.12 LO	0.03
1222	260	266	2000	600	0.921E-05	509.54	1.92	0.95
1223	260	269	600	300	0.121E-02	16.17	0.18 LO	0.30
1224	260	267	2000	650	0.748E-05	484.28	1.82	0.70
1225	267	292	2000	650	0.805E-05	474.41	1.18	0.73
1226	287	295	1500	332	0.167E-04	316.65	2.12	0.71
1227	265	276	400	200	0.677E-02	10.59	1.00	0.53
1228	286	287	1500	316	0.155E-04	387.46	2.59	0.99
1229	295	283	400	350	0.102E-01	-0.71	0.60 LO	0.32
1231	287	281	260	300	0.252E-00	2.62	0.43 LO	1.76
5231	287	281	600	300	0.122E-02	56.20	2.13	5.85 HI
1301	285	301	600	400	0.109E-02	5.62	0.40 LO	0.31 LC
1302	297	305	1050	2100	0.555E-03	56.29	1.31	2.82
1305	305	302	1050	800	0.228E-03	25.47	0.34 LO	0.11 LO
4202	264	5264	600	750	0.227E-02	7.25	0.31 LO	0.13

WELLS 2.5.6.266 (2019 PEAK FLOW - CASE 2)

PIPE NO	INCHES	DIA	L	M-H	K-VALUE	FLOW	VEL--	HEADLOSS
	FROM-TO	MM	MTRS	C		MPS-CK	MT/1000 CK	
1619	818	816	1200	130	0.821E-04	51.31	6.54	0.12
5004	402	506	2800	140	0.151E-04	1148.00	2.20	7.23
1316	314	312	750	125	0.110E-02	6.52	6.15	0.05
7833	314	312	1200	135	0.569E-04	25.71	6.27	0.04
308	306	308	400	110	0.537E-01	6.61	0.06	0.02
7820	306	308	1200	1350	0.272E-05	134.29	1.40	0.02
310	308	310	400	110	0.235E-01	3.14	6.29	0.20
7831	306	310	1200	135	0.725E-04	65.20	6.72	0.20
1312	311	314	900	120	0.127E-02	22.63	6.61	0.38
1314	310	312	500	120	0.166E-01	5.20	6.32	0.36
7832	310	312	1200	135	0.187E-03	55.66	6.62	0.36
1311	305	306	600	115	0.504E-02	17.59	6.74	1.03
3033	306	2582	450	1670	0.275E-01	17.10	1.27	5.27
7834	306	2082	600	1670	0.677E-02	36.43	1.52	5.27
2032	2082	2081	300	830	0.984E-01	4.64	6.08	1.30
7835	2082	2081	600	830	0.234E-02	24.59	1.04	1.57
1310	305	311	900	125	0.121E-02	22.63	6.61	0.38
1303	305	307	1050	125	0.502E-03	71.22	6.97	1.35
304	302	304	500	105	0.219E-01	14.42	6.87	3.07
7828	302	304	1200	135	0.194E-03	185.44	1.94	3.67
1308	302	309	1050	125	0.214E-03	71.22	6.57	0.85
206	304	306	400	110	0.795E-01	6.66	6.08	0.06
7829	304	306	1200	1350	0.303E-05	185.23	1.99	0.06
4266	277	276	300	0	0.137E-03	39.64	0.0	18.67
4000	124	126	750	0	0.350E-06	0.86	6.0	0.0
4007	81	82	900	0	0.165E-06	0.86	6.0	0.0
4804	6090	404	3000	0	0.177E-08	1459.59	6.0	0.0
4806	818	615	1200	0	0.534E-07	153.69	6.0	0.0
4807	27	23	1050	0	0.511E-07	56.63	6.0	0.0
5000	252	258	100	0	0.111E-05	0.61	6.0	7.74
5001	255	259	100	0	0.111E-05	0.61	6.0	1.04
5002	257	264	100	0	0.111E-05	0.61	6.0	3.43
5004	266	266	100	0	0.111E-05	0.61	6.0	0.95
5005	262	269	100	0	0.111E-05	0.61	6.0	0.78
5006	822	824	100	0	0.111E-05	0.61	6.0	0.07
5007	718	719	100	0	0.111E-05	0.61	6.0	47.23
5208	295	297	0	0	0.124E-05	319.51	6.0	0.01
502	504	505	0	0	0.404E-07	143.61	6.0	41.81
645	605	607	0	0	0.871E-11	20.78	6.0	33.50
5204	243	2043	0	0	0.194E-02	223.00	6.0	19.40
5802	738	5800	0	0	0.541E-02	126.28	6.0	40.11
5804	816	815	0	0	0.191E-02	101.27	6.0	33.19

NODE	GROUND ELEV	FLOW	HGL ELEV	HEAD MTRS	KG/SCM	PRESSURE	
						CK	PCT DROP
2	12.0	10.22	43.750	31.75	3.17	47.56	MI
3	11.0	15.35	37.800	26.88	2.68	56.78	MI
6	26.0	38.71	53.170	27.17	2.72	42.20	MI
7	30.0	5.82	56.600	26.00	2.60	39.54	MI
8	11.5	12.23	32.080	20.58	2.06	66.53	MI
10	11.5	16.45	31.330	19.83	1.98	67.76	MI
11	12.0	19.84	33.490	21.49	2.15	64.77	MI
12	12.0	18.37	40.150	28.15	2.81	53.86	MI
13	13.0	12.23	42.350	20.35	3.04	45.35	MI
14	12.0	21.86	29.720	17.72	1.77	70.95	MI
15	12.0	34.46	29.320	17.52	1.75	71.29	MI
16	18.0	44.83	37.690	19.69	1.97	64.21	MI
17	22.0	59.13	44.630	22.62	2.26	55.63	MI
18	26.0	39.18	51.430	25.42	2.54	45.89	MI
19	28.0	24.46	48.480	20.48	2.05	54.49	MI
20	30.0	48.26	55.050	25.05	2.50	41.75	MI
21	20.0	57.00	53.650	27.65	2.77	41.17	MI
22	22.0	45.80	53.710	21.71	2.17	47.04	MI
25	20.0	11.65	49.410	29.41	2.94	44.50	MI
27	20.0	15.80	49.410	29.41	2.94	44.50	MI
28	22.0	21.45	52.350	30.35	3.04	40.49	MI
29	20.0	11.55	50.770	30.77	3.08	41.93	MI
30	12.0	16.45	45.470	33.42	3.34	45.22	MI
31	22.0	48.91	60.610	30.61	3.06	42.24	MI
32	25.0	39.13	51.610	26.61	2.66	44.57	MI
33	11.0	8.40	42.010	31.01	3.10	49.99	MI
35	15.0	8.08	45.020	30.02	3.00	48.25	MI
36	30.0	33.79	52.370	23.37	2.24	47.97	MI
37	20.0	17.64	51.770	25.77	2.58	45.17	MI
38	24.0	0.0	51.280	27.28	2.73	44.32	MI
39	22.0	19.30	51.090	29.09	2.91	42.96	MI
40	20.0	8.87	51.090	31.02	3.10	41.45	MI
41	12.0	8.40	35.970	23.97	2.40	60.71	MI
42	13.0	8.40	43.760	30.70	3.07	48.83	MI
43	12.0	8.40	43.270	31.27	3.13	48.74	MI
44	13.0	11.18	42.920	30.92	3.09	48.31	MI
47	12.0	12.78	44.530	31.53	3.15	47.46	MI
48	12.0	8.40	47.500	35.50	3.56	41.59	MI
49	12.0	8.40	44.020	32.02	3.20	41.81	MI
50	12.0	8.40	41.760	29.76	2.98	47.52	MI
51	12.0	16.60	39.640	27.64	2.76	54.69	MI
52	12.0	8.75	47.470	35.47	3.55	41.85	MI
53	12.0	8.40	39.930	27.93	2.79	54.21	MI
54	13.0	12.49	36.920	23.92	2.39	60.13	MI
55	12.0	10.95	36.710	24.71	2.47	59.49	MI
56	12.0	11.88	47.490	35.49	3.55	41.82	MI
57	13.0	9.95	36.910	23.91	2.39	60.15	MI
58	12.0	17.50	47.900	35.90	3.59	41.14	MI
59	17.0	12.55	49.260	32.26	3.23	42.40	MI

BUCKLE 2,3,4,5,6 (2015 PEAK HOUR - CASE 2)

NODE	GROUND ELEV	FLOW	HGL ELEV	HEAD MTRS	MG/SCM	PRESSURE	
						CR	PCT DROP
60	12.0	0.0	36.910	24.91	2.49	59.16	HI
61	20.0	21.00	49.970	29.97	3.00	43.46	HI
62	13.0	10.48	47.180	24.18	3.42	42.04	HI
63	10.0	16.85	49.120	23.12	3.31	41.89	HI
64	20.0	12.45	49.050	29.05	2.91	45.11	HI
65	12.0	5.58	46.350	34.35	2.43	43.70	HI
66	12.0	8.40	46.680	34.68	2.47	43.15	HI
67	12.0	11.18	43.060	31.06	3.11	45.08	HI
68	12.0	5.58	37.560	25.96	2.60	57.44	HI
69	12.0	8.40	39.610	27.61	2.76	54.74	HI
70	12.0	10.87	36.640	24.64	2.46	55.61	HI
71	12.0	0.0	37.120	25.12	2.51	58.82	HI
72	12.0	11.18	36.680	24.68	2.47	59.54	HI
73	12.0	3.76	36.670	24.67	2.47	55.55	HI
74	12.0	3.76	36.630	24.63	2.46	55.63	HI
75	12.0	12.84	44.250	32.25	2.23	47.06	HI
76	12.0	7.24	37.100	25.10	2.51	58.85	HI
77	12.0	3.76	26.760	24.76	2.43	59.41	HI
78	12.0	1.95	36.670	24.67	2.47	55.56	HI
79	12.0	4.93	36.640	24.64	2.46	59.60	HI
80	12.0	10.60	36.680	24.68	2.47	59.55	HI
81	12.0	0.0	36.680	24.68	2.47	59.55	HI
82	12.0	1.84	36.690	24.68	2.47	59.55	HI
83	12.0	5.34	36.930	24.93	2.49	59.13	HI
84	13.0	11.95	36.750	23.75	2.38	60.35	HI
85	13.0	0.0	36.970	23.97	2.40	60.05	HI
86	12.0	3.76	36.670	24.67	2.47	55.56	HI
87	12.0	0.0	36.960	24.56	2.50	59.09	HI
88	12.0	2.12	37.390	24.35	2.44	59.35	HI
89	12.0	12.53	37.650	24.20	2.42	55.67	HI
90	12.0	2.12	37.740	24.01	2.47	58.91	HI
91	12.0	3.18	37.740	23.74	2.57	57.80	HI
92	13.0	17.29	37.640	24.64	2.46	58.93	HI
93	13.0	5.76	39.160	26.16	2.62	56.41	HI
94	13.0	17.38	42.530	29.53	2.95	50.78	HI
95	13.0	5.95	39.600	26.60	2.66	55.66	HI
96	12.0	3.55	38.980	26.98	2.70	55.77	HI
97	13.0	2.34	42.800	29.80	2.98	50.34	HI
98	13.0	3.55	45.510	32.51	3.25	45.81	HI
99	12.0	3.55	46.540	34.54	3.45	43.37	HI
100	12.0	16.09	46.700	34.70	3.47	43.12	HI
101	12.0	19.97	47.270	35.27	3.53	42.18	HI
104	18.0	0.0	49.420	30.42	3.04	44.69	HI
105	22.0	14.09	49.090	27.09	2.71	46.88	HI
106	14.0	0.0	48.890	34.85	3.49	40.86	HI
107	32.0	0.0	49.980	17.98	1.80	56.15	HI
108	11.0	21.19	46.040	35.04	3.50	43.49	HI
109	12.0	0.0	43.720	31.72	3.17	48.00	HI
111	12.0	2.34	45.500	33.50	3.35	45.08	HI
112	20.0	5.46	59.790	30.75	3.08	41.51	HI

07/04/95

WICKS 2.34.566 (2015 PEAK HOUR - CASE 2)

NODE	GPLUND ELEV	FLOW	HCL ELEV	HEAD MTRS	KG/SCM	PRESSURE	
						CK	PCT DROP
113	28.0	10.62	49.520	21.52	2.15	52.17	HI
114	26.0	12.53	53.550	23.55	2.35	45.23	HI
115	27.0	20.65	55.170	20.17	2.82	38.77	HI
116	26.0	4.20	55.820	29.82	2.98	36.56	HI
117	28.0	17.27	57.620	15.62	1.96	42.52	HI
118	12.0	0.0	47.900	35.90	3.59	41.17	HI
119	12.0	0.0	47.880	35.88	3.59	41.17	HI
122	20.0	0.0	51.030	31.03	3.10	41.45	HI
123	26.0	0.0	51.080	25.08	2.51	46.65	HI
124	26.0	0.0	50.740	24.74	2.47	47.36	HI
126	26.0	0.0	50.740	24.74	2.47	47.36	HI
128	30.0	0.0	53.410	23.41	2.34	45.57	HI
132	12.0	5.95	48.120	36.12	3.61	40.77	HI
135	24.0	34.65	55.190	31.19	3.12	36.35	HI
136	13.0	8.40	49.450	36.45	3.65	35.25	HI
137	12.0	11.18	48.800	36.80	3.68	35.67	HI
138	12.0	16.45	29.210	17.21	1.72	71.79	HI
152	26.0	8.87	53.100	27.10	2.71	42.34	HI
153	30.0	13.70	46.920	16.92	1.69	60.64	HI
154	28.0	5.35	47.340	19.34	1.93	57.03	HI
155	18.0	3.74	48.840	30.84	3.08	42.92	HI
156	18.0	16.94	44.710	26.71	2.67	51.44	HI
157	30.0	13.35	43.380	27.38	2.74	51.56	HI
158	20.0	17.27	57.310	27.31	2.73	36.49	HI
159	24.0	12.23	49.490	25.49	2.55	47.98	HI
160	12.0	12.23	37.760	26.76	2.68	56.83	HI
161	12.0	20.42	29.780	17.78	1.78	70.85	HI
162	12.0	13.28	35.050	23.05	2.31	62.15	HI
163	12.0	20.72	41.050	29.05	2.91	52.37	HI
164	30.0	24.46	49.310	19.31	1.93	55.08	HI
165	27.0	12.97	42.470	15.47	1.55	66.36	HI
166	12.0	44.01	33.720	21.72	2.17	64.39	HI
167	28.0	31.76	54.390	26.35	2.64	51.35	HI
168	12.0	31.55	49.590	37.55	3.80	37.71	HI
169	22.0	7.28	47.670	25.67	2.57	45.67	HI
170	12.0	8.40	42.200	30.20	3.02	50.49	HI
171	12.0	8.40	43.660	31.66	3.17	48.09	HI
172	12.0	5.58	45.140	33.14	3.31	45.67	HI
173	12.0	8.40	45.610	33.61	3.36	44.90	HI
174	12.0	8.40	41.380	29.38	2.94	51.84	HI
175	12.0	8.40	40.130	28.13	2.81	53.88	HI
176	26.0	2.57	45.540	19.54	1.95	58.44	HI
178	12.0	19.95	36.710	24.71	2.47	55.49	HI
179	12.0	5.99	47.480	35.48	3.55	41.84	HI
180	12.0	5.58	44.850	32.85	3.29	46.14	HI
181	12.0	10.87	45.770	33.77	3.38	44.64	HI
182	12.0	12.49	46.890	34.89	3.49	42.80	HI
183	12.0	17.49	47.130	35.13	3.51	42.41	HI
184	16.0	17.01	49.050	33.05	3.31	41.96	HI
185	12.0	11.18	48.930	37.93	3.79	37.82	HI

07/24/95

WELLS 2,3,4,5 (2015 PEAK HOUR - CASE 2)

NODE	GFLU(M) ELEV	FLOW	FCL ELEV	HEAD MTRS	PRESSURE	
					NO/SCM	PGT DROP
186	14.0	4.18	47.520	23.53	3.35	43.17 HI
187	36.0	23.71	59.020	23.02	2.30	37.78 HI
188	24.0	17.27	58.620	24.41	2.44	37.35 HI
189	28.0	17.27	51.820	23.82	2.38	47.08 HI
190	22.0	28.02	51.820	29.61	2.96	41.90 HI
191	31.0	20.91	54.450	24.45	2.44	42.15 HI
192	12.0	6.74	26.050	14.05	1.40	76.97 HI
193	12.0	14.10	37.460	25.46	2.55	58.26 HI
200	13.0	5.70	45.460	32.46	3.25	45.90 HI
201	12.0	7.61	38.370	26.37	2.64	56.77 HI
202	12.0	12.13	33.560	21.96	2.20	64.00 HI
203	13.0	4.25	40.910	27.91	2.79	52.49 HI
204	13.0	6.0	40.910	27.91	2.79	53.49 HI
206	12.0	3.38	24.320	12.32	1.23	75.79 HI
208	13.0	5.06	22.510	9.51	0.95	84.16 HI
210	12.0	2.71	22.440	10.44	1.04	82.88 HI
211	11.0	13.12	22.410	11.41	1.14	81.60 HI
212	11.0	0.0	22.410	11.41	1.14	81.60 HI
214	12.0	5.06	22.320	10.32	1.03	83.09 HI
216	13.0	14.82	44.540	31.54	3.15	47.43 HI
217	11.0	19.88	43.360	32.36	3.24	47.80 HI
218	12.0	21.54	44.580	32.58	3.26	46.60 HI
220	12.0	1.92	44.820	32.83	3.28	46.18 HI
222	12.0	18.13	45.120	33.12	3.31	45.71 HI
223	12.0	22.26	46.290	34.29	3.43	43.78 HI
224	12.0	21.28	46.100	34.10	3.41	44.10 HI
226	12.0	9.82	22.250	10.25	1.03	83.13 HI
228	12.0	8.14	33.030	21.03	2.10	65.52 HI
230	13.0	10.87	33.94.350	31.39	3.14	47.88 HI
232	12.0	13.15	32.290	10.29	1.03	83.13 HI
234	13.0	13.16	35.710	22.71	2.27	62.15 HI
236	13.0	10.97	44.230	31.23	3.12	47.95 HI
238	13.0	16.08	42.420	29.42	2.94	50.97 HI
240	12.0	9.38	42.420	30.42	3.04	50.12 HI
242	12.0	22.77	42.750	30.75	3.07	45.59 HI
244	13.0	0.0	41.040	28.04	2.80	53.26 HI
246	13.0	0.0	60.150	47.15	4.72	21.41 HI
248	13.0	13.56	58.240	45.24	4.52	24.60 HI
247	18.0	7.07	42.340	24.34	2.43	55.75 HI
248	12.0	11.79	50.170	38.17	3.82	37.43 HI
249	12.0	8.60	41.760	29.76	2.98	51.21 HI
250	12.0	11.27	42.990	30.99	3.10	45.20 HI
251	12.0	0.0	37.950	25.95	2.59	57.46 HI
252	13.0	0.0	54.870	41.87	4.19	30.21 HI
253	12.0	5.09	57.400	45.40	4.54	25.57 HI
254	12.0	9.92	48.500	36.50	3.65	40.17 HI
255	13.0	8.40	36.120	23.12	2.31	61.47 HI
256	12.0	8.40	42.430	30.43	3.04	56.12 HI
257	13.0	8.38	44.150	31.15	3.12	48.01 HI
258	13.0	16.75	47.130	34.13	3.41	42.11 HI

NODE	GROUND ELEV	FLCH	FCU ELEV	HEAD MTRS	KG/SCM	CK	PCT DROP	CK
255	13.0	8.38	27.160	24.16	2.42		59.73	MI
260	13.0	16.08	41.550	28.55	2.86		52.42	MI
262	13.0	16.43	41.080	28.08	2.81		53.21	MI
263	14.0	14.24	39.320	25.22	2.52		57.25	MI
264	12.0	9.40	40.760	28.76	2.88		52.84	MI
265	12.0	4.06	40.570	28.57	2.86		53.16	MI
266	13.0	6.09	40.600	27.60	2.78		54.00	MI
267	13.0	9.97	39.900	26.90	2.69		55.17	MI
268	19.0	21.86	68.930	49.93	4.99		7.54	MI
269	13.0	9.22	40.300	27.30	2.73		54.50	MI
270	12.0	13.37	41.440	29.44	2.94		51.73	MI
271	18.0	8.35	41.350	42.35	4.34		21.10	MI
272	13.0	2.66	40.650	27.60	2.76		53.59	MI
273	14.0	5.76	65.550	51.55	5.16		12.55	MI
274	13.0	8.40	40.450	27.45	2.75		54.23	MI
276	13.0	10.95	39.770	26.77	2.68		55.39	MI
277	13.0	10.95	58.440	45.44	4.54		24.27	MI
278	16.0	21.35	75.510	59.51	5.95		-5.10	MI
280	12.0	8.56	35.770	23.77	2.38		61.04	MI
281	13.0	0.0	32.130	19.13	1.91		68.11	MI
282	13.0	5.04	40.600	27.00	2.70		55.00	MI
283	13.0	8.00	33.430	20.49	2.05		65.84	MI
284	13.0	3.36	39.350	26.35	2.64		56.08	MI
285	13.0	3.36	28.500	15.90	1.59		73.50	MI
286	12.0	21.82	34.870	21.87	2.19		63.54	MI
287	13.0	17.15	31.850	20.85	2.09		65.19	MI
288	13.0	15.92	35.560	22.56	2.26		62.39	MI
289	12.0	32.53	36.740	24.76	2.48		55.40	MI
290	12.0	-13.96	37.340	25.34	2.53		58.46	MI
291	14.0	0.0	38.440	24.44	2.44		58.58	MI
292	14.0	16.75	39.170	25.17	2.52		57.34	MI
293	14.0	1.70	39.110	26.11	2.61		55.75	MI
294	16.0	2.34	39.170	23.17	2.32		59.35	MI
295	13.0	3.55	33.150	20.18	2.02		66.37	MI
296	18.0	1.17	37.070	59.07	5.91		7.40	MI
297	13.0	5.0	33.160	20.16	2.02		66.39	MI
299	13.0	5.02	29.500	16.90	1.69		71.83	MI
300	13.0	32.27	32.030	19.03	1.90		68.28	MI
301	13.0	68.25	28.770	15.77	1.58		73.71	MI
302	13.0	16.15	30.250	17.25	1.73		71.25	MI
304	12.0	9.68	27.180	15.18	1.52		75.12	MI
305	12.0	0.0	30.340	18.34	1.83		69.53	MI
306	12.0	19.35	27.120	15.12	1.51		75.22	MI
307	12.0	0.0	28.560	16.95	1.70		72.14	MI
308	12.0	62.56	27.090	15.09	1.51		75.26	MI
309	12.0	21.00	28.150	16.15	1.61		73.53	MI
310	12.0	7.37	26.500	14.90	1.49		75.58	MI
311	12.0	0.0	27.380	15.38	1.54		74.79	MI
312	12.0	97.00	26.520	14.52	1.45		76.18	MI
314	12.0	0.0	26.570	14.57	1.46		76.11	MI

NODE	GALVING ELEV	FLOW	MCL ELEV	HEAD MTRS	PRESSURE	
					KG/SCM	PCT DROP
400	73.0	-1475.77	69.260	-3.74	-0.37	LO 100.00 HI
402	72.0	-1148.00	65.480	-6.52	-0.65	LO 752.32 HI
404	62.0	0.0	66.820	6.82	0.68	LO 47.51 HI
411	42.0	0.0	59.980	17.98	1.80	LO 41.98 HI
412	43.0	18.67	60.340	17.34	1.73	LO 42.20 HI
500	58.3	-395.350	58.300	0.0	0.0	LO 100.00 HI
501	58.3	-266.940	58.300	0.0	0.0	LO 100.00 HI
502	30.0	0.0	58.240	28.24	2.82	LO 34.32 HI
504	52.0	60.00	58.260	6.26	0.63	LO 70.21 HI
505	52.0	-59.08	100.000	48.00	4.81	LO 128.86 HI
506	50.0	0.0	58.240	8.24	0.82	LO 64.16 HI
507	50.0	0.0	58.230	8.23	0.82	LO 64.21 HI
508	50.0	0.0	58.190	8.19	0.82	LO 64.39 HI
509	80.0	5.04	93.000	13.00	1.30	LO 285.75 HI
510	80.0	5.04	96.480	16.48	1.65	LO 335.42 HI
511	70.0	5.04	89.700	19.70	1.97	LO 556.81 HI
512	78.0	7.61	93.800	15.80	1.58	LO 415.94 HI
513	59.0	2.54	89.620	30.62	3.06	LO 118.70 HI
514	58.0	7.31	89.620	31.62	3.16	LO 116.77 HI
516	58.0	0.0	50.140	32.14	3.21	LO 114.26 HI
517	57.0	0.0	89.990	32.99	3.30	LO 106.16 HI
518	54.0	9.90	74.980	20.98	2.10	LO 10.40 HI
519	54.0	0.80	84.550	30.95	3.10	LO 63.11 HI
520	54.0	2.97	78.680	24.68	2.47	LO 29.88 HI
521	52.0	6.14	73.780	21.78	2.18	LO 3.71 HI
522	48.0	11.29	73.680	25.68	2.57	LO 2.71 HI
523	44.0	2.71	71.850	27.85	2.79	LO 2.96 HI
524	30.0	19.95	73.820	35.82	3.58	LO 2.34 HI
525	43.0	19.95	78.650	35.65	3.57	LO 18.84 HI
526	46.0	9.29	66.420	20.42	2.04	LO 24.26 HI
527	33.0	11.08	69.460	36.46	3.65	LO 8.86 HI
528	34.0	6.72	58.400	24.40	2.44	LO 37.43 HI
529	34.0	6.72	55.080	21.08	2.11	LO 45.94 HI
530	22.0	21.40	56.020	14.02	1.40	LO 65.80 HI
531	40.0	6.54	60.430	20.43	2.04	LO 38.10 HI
532	40.0	11.25	46.040	6.04	0.60	LO 81.88 HI
533	46.0	12.32	74.270	28.27	2.83	LO 4.72 HI
534	50.0	0.0	83.460	33.46	3.35	LO 45.47 HI
535	52.0	4.79	86.160	34.16	3.42	LO 62.65 HI
536	52.0	0.0	56.320	4.32	0.43	LO 79.45 HI
537	47.0	4.73	85.870	38.87	3.89	LO 45.68 HI
538	67.0	7.30	95.440	18.44	1.84	LO 207.30 HI
539	36.0	9.69	71.810	35.81	3.58	LO 3.21 HI
541	56.0	13.44	11.70.260	14.26	1.43	LO 16.14 HI
542	57.0	0.0	90.170	33.17	3.32	LO 107.34 HI
543	43.0	2.71	72.110	29.11	2.91	LO 2.95 HI
544	48.0	2.71	72.070	24.07	2.41	LO 3.72 HI
545	50.0	10.53	75.500	19.50	1.95	LO 14.69 HI
546	60.0	5.04	75.200	15.20	1.52	LO 16.91 HI
547	68.0	7.61	85.870	17.87	1.79	LO 257.37 HI

NODE	GROUND ELEV	FLOW	HCL ELEV	HEAD MTKS	PRESSURE	
					KG/SCM	PCT DRQP
548	46.0	4.79	85.46U	39.66	3.97	-46.88
549	41.0	6.14	72.72U	31.73	3.17	0.85
551	32.0	11.27	54.90U	22.90	2.29	44.15
552	50.0	9.27	66.40U	16.40	1.64	28.71
553	50.0	9.06	70.23U	20.32	2.03	11.63
600	52.0	17.64	79.55U	27.55	2.76	-31.21
601	54.0	14.12	80.72U	26.73	2.67	-46.69
602	60.0	19.91	92.94U	32.94	3.29	-152.42
603	52.0	11.55	98.63U	36.62	3.66	-74.44
607	52.0	11.55	97.88U	35.88	3.59	-70.87
609	50.0	0.0	54.38U	4.38	0.44	80.95
610	45.0	0.0	52.38U	7.38	0.74	73.63
616	41.0	0.0	52.35U	11.35	1.13	64.54
620	30.0	-373.95	96.92U	58.92	5.89	-68.35
621	42.0	23.08	56.20U	54.20	5.42	-74.82
622	46.0	32.72	95.11U	45.11	4.51	-81.88
623	47.0	23.08	92.67U	45.67	4.57	-75.65
624	40.0	17.31	71.05U	31.05	3.10	5.92
625	36.0	6.70	68.56U	32.56	3.26	12.01
626	30.0	6.70	76.17U	46.17	4.62	-7.37
627	38.0	20.75	95.01U	57.01	5.70	-62.50
628	30.0	0.0	56.60U	58.60	5.86	-67.44
630	38.0	0.0	52.00U	14.00	1.40	60.00
631	26.0	3.08	50.37U	30.37	3.04	42.70
632	23.0	7.52	50.56U	27.56	2.76	44.89
633	26.0	22.84	89.31U	63.31	6.33	-34.70
634	34.0	17.95	88.66U	34.66	3.47	-82.43
635	29.0	4.48	47.18U	27.18	2.72	48.71
636	21.0	7.52	47.38U	26.38	2.64	45.28
641	53.0	14.12	85.47U	32.47	3.25	-62.36
642	52.0	10.45	79.78U	27.78	2.78	-32.27
644	33.0	5.77	71.35U	38.35	3.83	44.13
645	22.0	4.43	69.28U	47.28	4.73	7.30
700	59.0	29.91	55.02U	36.02	3.60	-157.29
701	32.0	9.12	89.13U	57.12	5.71	-35.34
702	28.0	5.62	88.70U	50.70	5.07	-44.87
703	46.0	0.0	89.07U	43.07	4.31	-55.52
704	40.0	36.35	95.20U	55.20	5.53	-67.57
705	17.0	6.05	45.20U	28.20	2.82	45.65
708	18.0	3.73	43.26U	25.26	2.53	54.06
711	11.0	5.27	43.01U	32.01	3.20	48.37
712	49.0	7.17	94.70U	45.70	4.57	-90.41
713	12.0	6.20	42.11U	30.11	3.01	-50.63
714	48.0	9.45	94.28U	46.28	4.63	-85.13
716	48.0	9.66	94.16U	46.16	4.62	-84.64
717	52.0	4.43	94.18U	43.18	4.32	-96.25
718	50.0	0.0	94.18U	44.18	4.42	-92.07
719	30.0	3.01	46.59U	16.59	1.69	60.59
720	50.0	0.0	94.32U	44.32	4.43	-92.73
721	15.0	3.01	47.14U	32.14	3.21	44.59

07/24/95

BLUKE 2.2+5.56 (2015 PEAK FLOW - CASE 2)

NODE	GROUND ELEV	FLOW	HCL ELEV	HEAD MTRS	KG/SEC	CK	PCT DROP	CK	PRESSURE
722	51.0	4.65	94.620	43.23	4.32				-96.52
724	50.0	10.48	54.110	44.11	4.41				-91.89
725	14.0	3.15	41.690	27.60	2.76				53.22 HI
726	16.0	6.26	43.110	27.11	3.71				52.44 HI
727	26.0	15.70	91.350	55.35	5.54				-49.60
728	22.0	12.55	88.760	66.76	6.68				-30.89 HI
729	15.0	0.0	47.880	32.42	3.25				44.00 HI
730	38.0	9.35	93.330	55.33	5.53				-58.09
732	36.0	3.01	91.930	61.93	6.19				-44.03
734	26.0	8.36	93.240	73.24	7.32				-38.19 HI
736	29.0	0.0	42.590	22.59	2.26				57.39 HI
738	20.0	7.07	40.900	20.90	2.09				60.57 HI
740	50.0	5.18	95.800	45.80	4.58				-95.15
741	50.0	10.88	98.450	48.45	4.85				-110.82 HI
742	20.0	4.15	41.410	21.41	2.14				59.61 HI
745	46.0	2.14	98.960	58.96	5.90				-78.67
746	22.0	14.65	90.850	58.85	5.89				-43.64
747	42.0	19.51	56.510	54.51	5.45				-75.85
748	50.0	3.50	95.390	45.39	4.54				-97.33
800	28.0	11.11	80.520	52.93	5.29				-17.63
802	36.0	9.97	79.620	43.82	4.38				-18.42
804	19.0	9.73	79.070	60.07	6.01				-11.23
805	32.0	5.90	78.400	46.40	4.64				-13.16
806	26.0	8.26	77.260	41.26	4.13				-11.51 HI
807	18.0	19.25	70.840	52.84	5.28				3.93
808	18.0	27.28	73.970	55.97	5.60				-1.77
809	22.0	11.91	74.730	52.73	5.27				-3.39
810	24.0	11.15	77.270	53.27	5.33				-8.72
811	32.0	5.90	75.560	43.56	4.60				-7.23
812	30.0	5.90	78.810	48.81	4.88				-13.92
813	32.0	5.69	80.060	48.06	4.81				-17.21
814	46.0	4.71	79.670	39.67	3.97				-20.23
815	40.0	2.62	79.250	39.85	3.98				-20.74
816	40.0	-45.96	46.660	6.66	6.67				79.82 HI
818	16.0	0.0	46.780	30.78	3.08				46.00 HI
820	14.0	3.87	46.180	32.18	3.22				45.46 HI
822	24.0	11.76	77.160	53.16	5.32				-8.49
824	22.0	5.88	77.090	55.09	5.51				-8.01
826	28.0	3.48	75.030	47.03	4.70				-4.52
828	20.0	7.89	77.060	51.06	5.71				-7.69
830	20.0	13.32	77.070	57.07	5.71				-7.68
904	19.0	9.48	42.920	23.92	2.39				55.70 HI
906	10.0	23.64	53.590	35.95	3.60				34.56 HI
907	22.0	23.64	55.680	33.68	3.37				33.96 HI
908	17.0	12.42	53.710	34.71	3.47				35.72 HI
909	20.0	5.62	53.180	33.18	3.32				37.40 HI
910	15.0	39.78	54.010	35.01	3.50				35.17 HI
912	20.0	5.62	53.030	33.03	3.30				37.67 HI
914	26.0	23.64	52.590	32.59	3.26				38.50 HI
916	20.0	48.30	37.360	17.36	1.74				61.25 HI

01/24/95

MULLICKS 2-22-2005 (2015 YEAR PUMP - CASE 2)

NODE	GROUND ELEV	FLOW	HGL ELEV	HEAD MTRS	PRESSURE	
					KG/CM ² -CK	PCT DROP
1002	22.0	10.87	50.710	28.71	2.87	43.70 HI
1004	13.0	22.05	46.670	33.67	3.37	43.89 HI
1006	14.0	11.44	48.470	34.47	3.45	41.50 HI
1008	14.0	11.50	48.540	34.54	3.45	41.46 HI
1016	14.0	11.50	47.900	33.90	3.39	42.55 HI
1021	15.0	20.32	47.600	32.60	3.26	43.80 HI
1216	13.0	0.0	44.540	31.54	3.15	47.43 HI
2043	13.0	0.0	60.440	47.44	4.74	20.94 HI
2081	18.0	25.03	20.540	2.54	0.25	95.38 HI
2082	14.0	24.50	21.850	7.85	0.78	86.70 HI
4745	40.0	137.01	46.420	6.42	0.64	80.56 HI
4746	14.0	0.0	46.860	32.86	3.29	44.30 HI
5264	13.0	0.0	40.630	27.63	2.76	53.94 HI
5502	45.0	0.0	58.130	13.13	1.31	53.12 HI
5618	41.0	224.00	52.090	11.09	1.11	65.34 HI
5619	40.0	0.0	52.280	12.28	1.23	62.80 HI
5711	14.0	0.0	43.270	29.27	2.93	50.39 HI
5800	28.0	-31.64	81.010	53.01	5.30	-17.80 HI
5804	18.0	0.0	37.000	19.00	1.90	65.45 HI
6030	12.0	0.0	50.250	28.35	3.83	37.13 HI
6015	32.0	0.0	90.820	58.82	5.88	-43.46 HI
6036	15.0	0.0	47.610	32.61	3.26	43.78 HI
6085	25.0	-94.750	65.00	0.00	0.00	100.00 HI
6090	60.5	0.0	66.830	6.33	0.63	45.38 HI
6110	18.0	0.0	48.840	30.84	3.08	42.92 HI
6115	14.0	0.0	46.780	30.78	3.08	46.00 HI
6120	12.0	0.0	45.520	29.52	2.95	45.06 HI
6122	20.0	0.0	49.600	25.60	2.56	44.16 HI
6150	11.0	0.0	43.750	32.75	3.27	47.18 HI
6182	24.0	0.0	44.500	20.90	2.09	57.35 HI
8000	12.0	0.0	44.800	32.80	3.28	46.23 HI
8001	12.0	0.0	45.220	33.22	3.32	45.54 HI
8006	13.0	0.0	45.420	32.42	3.24	45.97 HI
8007	48.0	0.0	56.920	48.92	4.89	-95.67 HI
8008	49.0	0.0	95.720	46.72	4.67	-94.65 HI
8246	13.0	0.0	42.420	29.42	2.94	50.97 HI
8509	50.0	0.0	94.180	44.18	4.42	-92.07 HI
8546	12.0	0.0	41.760	29.76	2.98	51.21 HI

END OF SIMULATION INPUT