

RESUMEN DE TUBERÍAS									
ID	Longitud (m)	Nudo Inicial	Nudo Final	Diámetro Interno	Diámetro Nominal	Material	Caudal (L/s)	Velocidad (m/s)	Pérdida (m)
TUB-2	26.71	J-75	J-3	268.6	315	PEAD	47.95	0.85	0.07
TUB-3	11.87	J-98	J-99	268.6	315	PEAD	47.95	0.85	0.03
TUB-4	32.32	J-75	J-74	268.6	315	PEAD	47.95	0.85	0.08
TUB-5	29.23	J-74	J-73	268.6	315	PEAD	47.95	0.85	0.07
TUB-6	31.94	J-73	J-72	268.6	315	PEAD	47.95	0.85	0.08
TUB-7	44.59	J-72	J-71	268.6	315	PEAD	47.95	0.85	0.11
TUB-8	41.82	J-71	J-70	268.6	315	PEAD	47.95	0.85	0.11
TUB-9	60.55	J-70	J-69	268.6	315	PEAD	47.95	0.85	0.15
TUB-10	49.42	J-69	J-68	268.6	315	PEAD	47.95	0.85	0.13
TUB-11(1)	87.86	J-68	J-95	268.6	315	PEAD	47.95	0.85	0.22
TUB-11(2)	11.59	J-95	J-67	268.6	315	PEAD	47.95	0.85	0.03
TUB-12	73.39	J-67	J-66	268.6	315	PEAD	47.95	0.85	0.19
TUB-13	91.5	J-66	J-65	268.6	315	PEAD	47.95	0.85	0.23
TUB-14	12.63	J-65	J-64	268.6	315	PEAD	47.95	0.85	0.03
TUB-15	11.27	J-64	J-63	268.6	315	PEAD	47.95	0.85	0.03
TUB-16	21.17	J-63	J-62	268.6	315	PEAD	47.95	0.85	0.05
TUB-17	151.62	J-62	J-61	268.6	315	PEAD	47.95	0.85	0.38
TUB-18	18.01	J-61	J-60	268.6	315	PEAD	47.95	0.85	0.05
TUB-19	18.97	J-60	J-59	268.6	315	PEAD	47.95	0.85	0.05
TUB-20(1)	75.72	J-59	J-94	268.6	315	PEAD	47.95	0.85	0.19
TUB-20(2)	16	J-94	J-58	268.6	315	PEAD	47.95	0.85	0.04
TUB-21	21.84	J-58	J-57	268.6	315	PEAD	47.95	0.85	0.06
TUB-22	43.04	J-57	J-56	268.6	315	PEAD	47.95	0.85	0.11
TUB-23	39.51	J-56	J-55	268.6	315	PEAD	47.95	0.85	0.1
TUB-24(1)	60.1	J-55	J-93	268.6	315	PEAD	47.95	0.85	0.15
TUB-24(2)	20.41	J-93	J-54	268.6	315	PEAD	47.95	0.85	0.05
TUB-25	68.09	J-54	J-53	268.6	315	PEAD	47.95	0.85	0.17
TUB-26	16.92	J-53	J-51	268.6	315	PEAD	47.95	0.85	0.04
TUB-27	43.56	J-51	J-50	268.6	315	PEAD	47.95	0.85	0.11
TUB-28(1)	10.25	J-50	J-92	268.6	315	PEAD	47.95	0.85	0.03
TUB-28(2)	45.19	J-92	J-49	268.6	315	PEAD	47.95	0.85	0.11
TUB-29	99.31	J-49	J-48	268.6	315	PEAD	47.95	0.85	0.25
TUB-30	37.29	J-48	J-47	268.6	315	PEAD	47.95	0.85	0.09
TUB-31	142.03	J-47	J-46	268.6	315	PEAD	47.95	0.85	0.36
TUB-32(1)	56.84	J-46	J-91	268.6	315	PEAD	47.95	0.85	0.14
TUB-32(2)	27.07	J-91	J-45	268.6	315	PEAD	47.95	0.85	0.07
TUB-33	49.92	J-45	J-44	268.6	315	PEAD	47.95	0.85	0.13
TUB-34	52.51	J-44	J-43	268.6	315	PEAD	47.95	0.85	0.13
TUB-35	61.16	J-43	J-42	268.6	315	PEAD	47.95	0.85	0.15
TUB-36	54.28	J-42	J-41	268.6	315	PEAD	47.95	0.85	0.14
TUB-37	26.52	J-41	J-40	268.6	315	PEAD	47.95	0.85	0.07
TUB-38	37.76	J-40	J-39	268.6	315	PEAD	47.95	0.85	0.1
TUB-39	33.25	J-39	J-38	268.6	315	PEAD	47.95	0.85	0.08
TUB-40	159.08	J-38	J-37	268.6	315	PEAD	47.95	0.85	0.4
TUB-41	154.65	J-37	J-36	268.6	315	PEAD	47.95	0.85	0.39
TUB-42(1)	84.88	J-36	J-90	268.6	315	PEAD	47.95	0.85	0.21
TUB-42(2)	21.52	J-90	J-35	268.6	315	PEAD	47.95	0.85	0.05
TUB-43(1)	26.85	J-35	PRV-1	268.6	315	PEAD	47.95	0.85	0.07
TUB-43(2)	48.93	PRV-1	J-34	268.6	315	PEAD	47.95	0.85	0.12
TUB-44	126.48	J-34	J-33	268.6	315	PEAD	47.95	0.85	0.32
TUB-45(1)	142.27	J-33	J-89	268.6	315	PEAD	47.95	0.85	0.36
TUB-45(2)	87.39	J-89	J-32	268.6	315	PEAD	47.95	0.85	0.22
TUB-46	118.22	J-32	J-31	268.6	315	PEAD	47.95	0.85	0.3
TUB-47(1)	38.97	J-31	J-88	268.6	315	PEAD	47.95	0.85	0.1
TUB-47(2)	73.66	J-88	J-29	268.6	315	PEAD	47.95	0.85	0.19
TUB-48	135.33	J-29	J-30	268.6	315	PEAD	47.95	0.85	0.34
TUB-49	82.91	J-30	J-26	268.6	315	PEAD	47.95	0.85	0.21
TUB-50	95.7	J-26	J-28	268.6	315	PEAD	47.95	0.85	0.24
TUB-51	104.69	J-28	J-27	268.6	315	PEAD	47.95	0.85	0.26
TUB-52	110.71	J-27	J-25	268.6	315	PEAD	47.95	0.85	0.28
TUB-53(1)	23.72	J-25	J-87	268.6	315	PEAD	47.95	0.85	0.06
TUB-53(2)	62.4	J-87	J-22	268.6	315	PEAD	47.95	0.85	0.16
TUB-54	86.05	J-22	J-24	268.6	315	PEAD	47.95	0.85	0.22
TUB-55	90.92	J-24	J-23	268.6	315	PEAD	47.95	0.85	0.23
TUB-56	102	J-23	J-21	268.6	315	PEAD	47.95	0.85	0.26
TUB-57	26.02	J-21	J-20	268.6	315	PEAD	47.95	0.85	0.07
TUB-58(1)	12	J-20	J-86	268.6	315	PEAD	47.95	0.85	0.03
TUB-58(2)	80.65	J-86	J-19	268.6	315	PEAD	47.95	0.85	0.2
TUB-59	85.81	J-19	J-17	268.6	315	PEAD	47.95	0.85	0.22
TUB-60	62.69	J-17	J-18	268.6	315	PEAD	47.95	0.85	0.16
TUB-61	53.49	J-18	J-14	268.6	315	PEAD	47.95	0.85	0.14
TUB-62	80.17	J-14	J-16	268.6	315	PEAD	47.95	0.85	0.2
TUB-63	83.95	J-16	J-15	268.6	315	PEAD	47.95	0.85	0.21
TUB-64	68.73	J-15	J-13	268.6	315	PEAD	47.95	0.85	0.17
TUB-65	68.93	J-13	J-12	268.6	315	PEAD	47.95	0.85	0.17
TUB-66(1)	40.89	J-12	J-85	268.6	315	PEAD	47.95	0.85	0.1
TUB-66(2)	10.5	J-85	J-9	268.6	315	PEAD	47.95	0.85	0.03
TUB-67	63.53	J-9	J-11	268.6	315	PEAD	47.95	0.85	0.16
TUB-68	62.27	J-11	J-10	268.6	315	PEAD	47.95	0.85	0.16
TUB-69	32.79	J-10	J-7	268.6	315	PEAD	47.95	0.85	0.08
TUB-70	99.08	J-7	J-8	268.6	315	PEAD	47.95	0.85	0.25
TUB-71	87.93	J-8	J-6	268.6	315	PEAD	47.95	0.85	0.22
TUB-72(1)	9.76	J-6	J-84	268.6	315	PEAD	47.95	0.85	0.02
TUB-72(2)	11.93	J-84	J-5	268.6	315	PEAD	47.95	0.85	0.03
TUB-73	24.39	J-5	T-1	268.6	315	PEAD	47.95	0.85	0.06
TUB-74	24.38	T-1	J-76	268.6	315	PEAD	47.95	0.85	0.06
TUB-75	20.6	J-76	J-78	268.6	315	PEAD	47.95	0.85	0.05
TUB-76	133.59	J-78	J-79	268.6	315	PEAD	47.95	0.85	0.34
TUB-77	115.08	J-79	J-80	268.6	315	PEAD	47.95	0.85	0.29
TUB-78	98.18	J-3	J-97	268.6	315	PEAD	47.95	0.85	0.25
TUB-79	333.21	J-97	PRV-2	268.6	315	PEAD	47.95	0.85	0.84
TUB-80	11.78	PRV-2	J-98	268.6	315	PEAD	47.95	0.85	0.03

RESUMEN DE NUDOS				
ID	Cota (m)	Presión (m.c.a.)	Demanda (L/s)	Grado Hidráulico (m)
J-3	2,925.00	58.69	47.95	2,983.81
J-5	3,028.15	2.77	47.95	3,030.92
J-6	3,027.89	2.97	47.95	3,030.86
J-7	3,024.00	6.38	47.95	3,030.39
J-8	3,026.06	4.57	47.95	3,030.64
J-9	3,020.70	9.27	47.95	3,029.99
J-10	3,023.32	6.98	47.95	3,030.31
J-11	3,022.02	8.11	47.95	3,030.15
J-12	3,019.63	10.21	47.95	3,029.86
J-13	3,018.20	11.46	47.95	3,029.68
J-14	3,013.35	15.71	47.95	3,029.09
J-15	3,016.77	12.72	47.95	3,029.51
J-16	3,015.02	14.25	47.95	3,029.30
J-17	3,010.94	17.83	47.95	3,028.80
J-18	3,012.24	16.68	47.95	3,028.96
J-19	3,009.15	19.39	47.95	3,028.58
J-20	3,007.23	21.08	47.95	3,028.35
J-21	3,006.68	21.55	47.95	3,028.28
J-22	3,000.88	26.64	47.95	3,027.58
J-23	3,004.56	23.41	47.95	3,028.02
J-24	3,002.67	25.07	47.95	3,027.79
J-25	2,999.09	28.21	47.95	3,027.36
J-26	2,992.62	33.88	47.95	3,026.57
J-27	2,996.79	30.23	47.95	3,027.08
J-28	2,994.61	32.14	47.95	3,026.81
J-29	2,988.08	37.87	47.95	3,026.02
J-30	2,990.90	35.39	47.95	3,026.36
J-31	2,985.73	39.92	47.95	3,025.73
J-32	2,983.28	42.07	47.95	3,025.43
J-33	2,978.50	46.26	47.95	3,024.85
J-34	2,975.87	48.56	47.95	3,024.53
J-35	2,974.30	15.49	47.95	2,989.82
J-36	2,972.08	17.43	47.95	2,989.55
J-37	2,968.87	20.25	47.95	2,989.16
J-38	2,965.56	23.15	47.95	2,988.75
J-39	2,964.87	23.75	47.95	2,988.67
J-40	2,964.08	24.44	47.95	2,988.57
J-41	2,963.53	24.92	47.95	2,988.51
J-42	2,962.40	25.91	47.95	2,988.37
J-43	2,961.13	27.03	47.95	2,988.21
J-44	2,960.04	27.98	47.95	2,988.08
J-45	2,959.00	28.89	47.95	2,987.95
J-46	2,957.26	30.42	47.95	2,987.74
J-47	2,954.31	33.01	47.95	2,987.38
J-48	2,953.53	33.69	47.95	2,987.29
J-49	2,951.47	35.49	47.95	2,987.04
J-50	2,950.32	36.5	47.95	2,986.90
J-51	2,949.41	37.3	47.95	2,986.79
J-53	2,949.06	37.6	47.95	2,986.74
J-54	2,947.65	38.84	47.95	2,986.57
J-55	2,945.98	40.31	47.95	2,986.37
J-56	2,945.16	41.03	47.95	2,986.27
J-57	2,944.26	41.81	47.95	2,986.16
J-58	2,943.81	42.21	47.95	2,986.10
J-59	2,941.90	43.88	47.95	2,985.87
J-60	2,941.51	44.22	47.95	2,985.82
J-61	2,941.13	44.55	47.95	2,985.78
J-62	2,937.99	47.31	47.95	2,985.39
J-63	2,937.55	47.7	47.95	2,985.34
J-64	2,937.31	47.9		