

Primer ejercicio									Segundo ejercicio								
Un avión se vuela a xxx m de altitud pasa directamente por arriba de un observador.									Una bomba centrífuga tiene una curva característica se adjunta, donde								
Si el avión se desplaza a M = xxx y la temperatura ambiente es xx °C. Cuántos segundos									Q está expresado en m3/seg y envía agua desde un depósito inferior								
tiene que esperar el observador antes de escuchar el sonido y a qué distancia está el avión?									a otro superior (abiertos) colocado a Ho (m) de altura a través de una								
									tubería de impulsión, cuya curva de pérdidas (sistema) se adjunta. ¿Cuáles								
									son las pérdidas en la cañería (m), la Hmanométrica (m), el caudal y la potencia en CV								
									Hpérd= Ho + H2pérd Q2								
									Hbba = Hbba -H2bba Q2								
									Q y N? Recuadrar resultados.								
Calcular distancia (m) y tiempo (seg) hasta que el Observador escuche el sonido. Recuadrar la Respuesta																	
		Temp	Mach	z (altura)	R Part.	k aire	d	t	Ho (Dz)pérd.	H2pérd.	Hbba	H2bba	g Pe	h (rend.)	Hman	Q	N
	Apellido(s)	Nombre	(°C)	(Ad)	(m)	m2/(S2 *K)	(Ad.)	(m)	(m)	(m)	(m)	(m)	(Kg/m3)		(m)	(m3/s)	(CV)
1	AGUILERA VILLEGAS	José Alberto	30	1.3	900	286.9	1.41	747.778	1.643	4	6	180	800	1,000	0.5	5.529	68.807
2	ALDAO HIDALGO	María Antonella	29.6	1.31	920	286.9	1.41			5	7	178	798	998	0.51		
3	Aleo	Rodrigo	29.2	1.32	940	286.9	1.41	809.6	1.76	6	8	176	796	996	0.52	7.69	0.46
4	ALLENDE SABINA	Franco Leonel	28.8	1.33	960	286.9	1.41	841.48	1.81	7	9	174	794	994	0.53	8.871	0.456
5	ALVAREZ BATTOCCHIA	Martina	28.4	1.34	980	286.9	1.41	874.138	1.867	8	10	172	792	992	0.54	10.19	0.452
6	ALVAREZ VALERO	Jose María	28	1.35	1,000	286.9	1.41	907.06	1.925	9	11	170	790	990	0.55	11.208	0.448
7	ANDER EGG	Marcos Federico	27.6	1.36	1,020	286.9	1.41	940.24	1.98	10	12	168	788	988	0.56	11.774	0.444
8	ANDRE	Dolores	27.2	1.37	1,040	286.9	1.41			11	13	166	786	986	0.57		
9	ARAUJO CROIZIER	Juan Ignacio	26.8	1.38	1,060	286.9	1.41			12	14	164	784	984	0.58		
10	ARTERO	Francisco Rodrig	26.4	1.39	1,080	286.9	1.41	1,042.822	2.155	13	15	162	782	982	0.59	16.06	0.432
11	ARUANI CONTRERAS	Juan Elias	26	1.4	1,100	286.9	1.41	1,076.03	2.21	14	16	160	780	980	0.6	17.11	0.43
12	ASPEE ROBERT	Juan Manuel	25.6	1.41	1,120	286.9	1.41	1113.3	2.27	15	17	158	778	978	0.61	18.13	0.424
13	BABOLENE LÓPEZ	Ignacio	25.2	1.42	1,140	286.9	1.41	1149.19	2.798	16	18	156	776	976	0.62	19.11	0.42
14	BALDASSO	David Eliel	24.8	1.43	1,160	286.9	1.41	1185.8	2.4	17	19	154	774	974	0.63	20.05	0.416
15	BALDONI	Victoria	24.4	1.44	1,180	286.9	1.41			18	20	152	772	972	0.64		
16	barmat	Gastón	24	1.45	1,200	286.9	1.41	1260	2.51	19	21	150	770	970	0.65	22.45	0.407
17	BÁSCOLO	María Felicitas	23.6	1.46	1,220	286.9	1.41	1297.685	2.566	20	22	148	768	968	0.66	23.56	0.40252
18	BASIGALUP DOMINGUEZ	Gonzalo	23.2	1.47	1,240	286.9	1.41	1336.2	2.63	21	23	146	766	966	0.67	24.66	0.398
19	BAZAN	Brenda Melanie	22.8	1.48	1,260	286.9	1.41	1374.61	2,685	22	24	144	764	964	0.68	25.39	0.394
20	BENEGAS	Rodrigo Adrián	22.4	1.49	1,280	286.9	1.41			23	25	142	762	962	0.69		
21	BENITEZ	Lautaro Nicolás	22	1.5	1,300	286.9	1.41			24	26	140	760	960	0.7		
22	BENITEZ MARTINEZ	Emanuel Cristian	21.6	1.51	1,320	286.9	1.41			25	27	138	758	958	0.71		
23	BERTANI	Matias Ezequiel	21.2	1.52	1,340	286.9	1.41			26	28	136	756	956	0.72		
24	BLAZQUEZ	Santiago Luis	20.8	1.53	1,360	286.9	1.41	1575.9	2.988	27	29	134	754	954	0.73	30.96	0.3697
25	BONADA	Ulises	20.4	1.54	1,380	286.9	1.41	1616.34	3.05	28	30	132	752	952	0.74	31.98	0.3647
26	BOTTASSO GRAGLIA	Anabella Natali	20	1.55	1,400	286.9	1.41	1658.75	3.12	22	42	142.5	825	1,000	0.53	27.84	0.373
27	BRAVO	María Milagros	19.6	1.56	1,420	286.9	1.41	1,701.37	3.17	22.6	43	142.6	830	1,000	0.53	28.36	0.371
28	BULLAUDE	Alejandro Julián	19.2	1.57	1,440	286.9	1.41	1743.14	3.228	23.2	44	142.7	835	1,000	0.53	29.191	0.369
29	Busajm Sanjuan	Matías	18.8	1.58	1,460	286.9	1.41	1,787.51	3.29	23.8	45	142.8	840	1,000	0.53	29.052	0.36669
30	BUSTILLO LOPEZ	Mario Fernando	18.4	1.59	1,480	286.9	1.41	1,829.5208	3.3514	24.4	46	142.9	845	1,000	0.53	30.5099	0.3647
31	CALLE MONZÓ	Jacinta	18	1.6	1,500	286.9	1.41	1871.95	3.41	25	47	143	850	1,000	0.53	31.18	0.3626
32	CAMAÑO BELLENE	Juan Ignacio	17.6	1.61	1,520	286.9	1.41	1,915.46	3.47	25.6	48	143.1	855	1,000	0.53	31.675	0.361
33	CÁMPORA	Juan Ignacio	17.2	1.62	1,540	286.9	1.41			26.2	49	143.2	860	1,000	0.53		
34	CAON	Walter Ezequiel	16.8	1.63	1,560	286.9	1.41			26.8	50	143.3	865	1,000	0.53		
35	CAPADONA	Antonella Abigail	16.4	1.64	1,580	286.9	1.41			27.4	51	143.4	870	1,000	0.53		
36	CARELLI	Bautista	16	1.65	1,600	286.9	1.41	2,099.54	3.72	28	52	143.5	875	1,000	0.54	34.467	0.353
37	CARLONI RIVAROLA	Franco Humbert	15.6	1.66	1,620	286.9	1.41	2,146.49	3.78	28.6	53	143.6	880	1,000	0.54	35.1831	0.351
38	CARRICART	Franco	15.2	1.67	1,640	286.9	1.41	2,193.50	3.84579	29.2	54	143.7	885	1,000	0.54	35.7846	0.34919
39	Casarotto	Mauricio	14.8	1.68	1,660	286.9	1.41	2240.91	3.91	29.8	55	143.8	890	1,000	0.54	36.42	0.347
40	CELEDON	Joana Victoria	14.4	1.69	1,680	286.9	1.41	2288.72	3.97	30.4	56	143.9	895	1,000	0.54	37.26	0.35
41	CHIAPETTA	Sebastián	14	1.7	1,700	286.9	1.41	2,334.70	4.013	31	57	144	900	1,000	0.54	37.75	0.3436
42	COMADRÁN	Amparo	13.6	1.71	1,720	286.9	1.41	2,385.70	4.098	31.6	58	144.1	905	1,000	0.54	38.37	0.3418
43	COMÁN	Dante Manuel	13.2	1.72	1,740	286.9	1.41			32.2	59	144.2	910	1,000	0.54		
44	CONSORTE	Franco Augusto	12.8	1.73	1,760	286.9	1.41	2484.59	4.22	32.8	60	144.3	915	1,000	0.54	39.76	0.338
45	CORAZZA	Luis Agustín	12.4	1.74	1,780	286.9	1.41	2,534.61	4.29	33.4	61	144.4	920	1,000	0.54	40.302	0.3364
46	CORVALAN AGUILAR	Cristian Martín J	12	1.75	1,800	286.9	1.41	2,585.04	4.35	34	62	144.5	925	1,000	0.55	40.94	0.3346
47	COSTA-ROMÁN	Joaquín Tomás	11.6	1.76	1,820	286.9	1.41	2635.92	4.41	34.6	63	144.6	930	1,000	0.55	41.59	0.3328
48	CRISAFULLI LÓPEZ	Francisco Javier	11.2	1.77	1,840	286.9	1.41	2687.25	4.476	35.2	64	144.7	935	1,000	0.55	42.26	0.331
49	CUELLO	Juliana Belen	10.8	1.78	1,860	286.9	1.41	2738.16	4.54	35.8	65	144.8	940	1,000	0.55	43.05	0.329
50	DAVILA	Juan Ignacio	10.4	1.79	1,880	286.9	1.41	2,791.06	4.605	36.4	66	144.9	945	1,000	0.55	43.48	0.3275
51	DE MARCHI	Franco Nicolás	10	1.8	1,900	286.9	1.41	2,843.67	4.669	37	67	145	950	1,000	0.55	44.1183	0.32587
52	DE MEZZO	Facundo	9.6	1.81	1,920	286.9	1.41	2,896.50	4.733	37.6	68	145.1	955	1,000	0.55	44.847	0.324
53	DELISOGLIO	Juan Eduardo	9.2	1.82	1,940	286.9	1.41	2,950	4.79	38.2	69	145.2	960	1,000	0.55	45.66	0.322
54	DELUGAN	Nicolás Ricardo	8.8	1.83	1,960	286.9	1.41	3003.9	4.862	38.8	70	145.3	965	1,000	0.55	45.865	0.321
55	ESTEBAN	Marina	8.4	1.84	1,980	286.9	1.41	3058.27	4.93	39.4	71	145.4	970	1,000	0.55	46.63	0.319
56	ESTEBANEZ	Wenceslao	8	1.85	2,000	286.9	1.41			40	72	145.5	975	1,000	0.56		
57	FARINA LORENZO	Nicolás Román	7.6	1.86	2,020	286.9	1.41			40.6	73	145.6	980	1,000	0.56		
58	FERNANDEZ	Carolina Nahir	7.2	1.87	2,040	286.9	1.41	3,223.41	5.12	41.2	74	145.7	985	1,000	0.56	48.58	0.314
59	FERNANDEZ ROSSI	Matías Tomas	6.8	1.88	2,060	286.9	1.41			41.8	75	145.8	990	1,000	0.56		

60	FERRANDO BUSTOS	Leandro Ezequiel	6.4	1.89	2,080	286.9	1.41	3,336.50	5.25		42.4	76	145.9	995	1,000	0.56	49.72	0.3109	368.17		
61	FERRE LO CASTRO	Ivan	6	1.9	2,100	286.9	1.41	3392.24	5.313		43	77	146	1000	1,000	0.56	50.39	0.3092	370.46		
62	FERREIRA	Julían Francisco	5.6	1.91	2,120	286.9	1.41				43.6	78	146.1	1005	1,000	0.56					
63	FERRERO MARTINEZ	Juan Marcos	5.2	1.92	2,140	286.9	1.41	3507.51	5.446		44.2	79	146.2	1010	1,000	0.56	51.63	0.306	376.03		
64	FERRI	Mariano Ariel	4.8	1.93	2,160	286.9	1.41				44.8	80	146.3	1015	1,000	0.56					
65	FONT	Carlos Tomás	4.4	1.94	2,180	286.9	1.41	3,623.83	5.58		45.4	81	146.4	1020	1,000	0.56	52.75	0.303	380.55	7.44	Pérdidas en la cañería [m]
66	FONT	Franco Sebastián	4	1.95	2,200	286.9	1.41	3,683.22	5.64		46	82	146.5	1025	1,000	0.57	53.63	0.301	377.61	7.43	Pérdidas en la cañería [m]
67	FOURCADE FALASCHI	Julieta	3.6	1.96	2,220	286.9	1.41				46.6	83	146.6	1030	1,000	0.57					
68	FREDES	Ariadna Luz	3.2	1.97	2,240	286.9	1.41				47.2	84	146.7	1035	1,000	0.57					
69	FRIAS	María Fernanda	2.8	1.98	2,260	286.9	1.41				47.8	85	146.8	1040	1,000	0.57					
70	GABRIELLI	Oliverio	2.4	1.99	2,280	286.9	1.41	3,922.90	5.906		48.4	86	146.9	1045	1,000	0.57	55.897	0.2951	385.85		
71	GALLART	Lucía	2	2	2,300	286.9	1.41	3,983.60	5.972		49	87	147	1050	1,000	0.57	56.85	0.293	389.63		
72	GARGIULO	María José Teres	1.6	2.01	2,320	286.9	1.41				49.6	88	147.1	1055	1,000	0.57					
73	GAVIÑO	Matías	1.2	2.02	2,340	286.9	1.41	4,107	6.106		50.2	89	147.2	1060	1,000	0.57	57.713	0.2905	392.3	7.513	Pérdidas en cañería [m]
74	GIORDANO	Francisco José	0.8	2.03	2,360	286.9	1.41				50.8	90	147.3	1065	1,000	0.57					
75	GIUNTA ZAMORANO	Sebastian	0.4	2.04	2,380	286.9	1.41	4231.93	6.24		51.4	91	147.4	1070	1,000	0.57	58.925	0.2875	396.22	7.525	Pérdidas en cañería [m]
76	GÓMEZ	S. Emanuel	0	2.05	2,400	286.9	1.41				52	92	147.5	1075	1,000	0.58					
77	GONZALEZ	Enzo Matías	-0.4	2.06	2,420	286.9	1.41				52.6	93	147.6	1080	1,000	0.58					
78	GUEVARA	Augusto Abel	-0.8	2.07	2,440	286.9	1.41				53.2	94	147.7	1085	1,000	0.58					
79	GUINEA RITTA	Lucas	-1.2	2.08	2,460	286.9	1.41	4486.65	6.51		53.8	95	147.8	1090	1,000	0.58	61.12	0.282	396.1	7.55	perdidas en las cañerías (m)
80	GUNTSCHS VALENTINI	Nicolás Federico	-1.6	2.09	2,480	286.9	1.41	4,551.382	6.57		54.4	96	147.9	1095	1,000	0.58	61.937	0.2802	398.67		
81	Gutierrez	Mayra Julieta	-2	2.1	2,500	286.9	1.41	4,616.54	6.63		55	97	148	1100	1,000	0.58	62.53	0.2787	400.63	7.53	perdidas en las cañerías (m)
82	GUTIERREZ	Tadeo Hernán	-2.4	2.11	2,520	286.9	1.41	4682.11	6.71		55.6	98	148.1	1105	1,000	0.58	63.31	0.277	403	7.519	perdidas en las cañerías (m)
83	GUTIERREZ GUELMI	Juan Ignacio	-2.8	2.12	2,540	286.9	1.41	4,749.01	6.78		56.2	99	148.2	1110	1,000	0.58	63.64	0.276	403.78		
84	HERNANDEZ GRANDÓN	Soledad Edith	-3.2	2.13	2,560	286.9	1.41				56.8	100	148.3	1115	1,000	0.58					
85	HERRERA CHIRINO	Martin Nahuel	-3.6	2.14	2,580	286.9	1.41	4,881	6.91		57.4	101	148.4	1120	1,000	0.58	64.93	0.273	406.93	7.53	
86	Herrera Moreno	Usandro Santiago	-4	2.15	2,600	286.9	1.41	4,948.55	6.9773		58	102	148.5	1125	1,000	0.59	65.5737	0.2715	402.1968	7.51	
87	HUAMPAZO CARPIO	Sandro Luis	-4.4	2.16	2,620	286.9	1.41	5,012.48	7.04		58.6	103	148.6	1130	1,000	0.59	66.053	0.269	401.524		
88	IGLESIAS	Alfredo Andrés	-4.8	2.17	2,640	286.9	1.41	5088.73	7.12		59.2	104	148.7	1135	1,000	0.59	68.85	0.295	445		
89	JOHNSON	Ian Dylan	-5.2	2.18	2,660	286.9	1.41	5,152.72	7.18		59.8	105	148.8	1140	1,000	0.59	67.306	0.2674	406.6783	7.51	Pérdida en cañerías (m)
90	KARK VERSTRAETE	Augusto	-5.6	2.19	2,680	286.9	1.41	5,222.10	7.25		60.4	106	148.9	1145	1,000	0.59	67.9	0.266	408.167	7.5	
91	LARA LALIK	Julieta Aldana	-6	2.2	2,700	286.9	1.41				61	107	149	1150	1,000	0.59					
92	LENCIONI HUGUCH	María Agustina	-6.4	2.21	2,720	286.9	1.41	5361.41	7.387		61.6	108	149.1	1155	1,000	0.59	69.07	0.263	410.52		
93	LOPEZ	María Emilia	-6.8	2.22	2,740	286.9	1.41	5,427.25	7.45		62.2	109	149.2	1160	1,000	0.59	69.57	0.262	411.77		
94	LOPEZ	Melanie Celeste	-7.2	2.23	2,760	286.9	1.41	5,501.90	7.55		62.8	110	149.3	1165	1,000	0.59	70.55	0.26	414.53		
95	LÓPEZ BUSTOS	Manuel Ignacio	-7.6	2.24	2,780	286.9	1.41	5570.74	7.59		63.4	111	149.4	1170	1,000	0.59	70.669	0.2591	413.65	7.452	perdidas en las cañerías en m
96	Luciano	Lencioni	-8	2.25	2,800	286.9	1.41	5,642.89	7.66		64	112	149.5	1175	1,000	0.6	71.47	0.2577	409.28		
97	MAMANI RODRIGUEZ	Raúl	-8.4	2.26	2,820	286.9	1.41				64.6	113	149.6	1180	1,000	0.6					
98	MAMANI VENTURA	Brandon Nicolás	-8.8	2.27	2,840	286.9	1.41				65.2	114	149.7	1185	1,000	0.6					
99	MANCHON	Marcos Alejandro	-9.2	2.28	2,860	286.9	1.41	5863.46	7.87		65.8	115	149.8	1190	1,000	0.6	73.2	0.2537	407.179	7.4018	Pérdidas en cañería (m)
100	Manzano	Claribel Estefanía	-9.6	2.29	2,880	286.9	1.41				66.4	116	149.9	1195	1,000	0.6					
101	MARTIN	Débora Cecilia	-10	2.3	2,900	286.9	1.41	6006.571	8.004		67	117	150	1200	1,000	0.6	74.399	0.251	414.423	7.371	Pérdidas en cañería [m]
102	Mashad	Celmira	-10.4	2.31	2,920	286.9	1.41	6080.43	8.0699		67.6	118	150.1	1205	1,000	0.6	75.56	0.2597	436.06		
103	MASI	Pedro Matías	-10.8	2.32	2,940	286.9	1.41	6154.65	8.146		68.2	119	150.2	1210	1,000	0.6	75.54	0.248	416.85	7.342	Pérdidas en cañería [m]
104	MERCADO LOMBARD	Tomás	-11.2	2.33	2,960	286.9	1.41	6229.306	8.228		68.8	120	150.3	1215	1,000	0.6	76.174	0.247	412.531	7.321	Pérdidas en cañería [m]
105	MIRANDA	Francisco Nehue	-11.6	2.34	2,980	286.9	1.41	6,304.37	8.285		69.4	121	150.4	1220	1,000	0.6	77.169	0.245	420.142	7.263	Pérdidas en cañería [m]
106	MONDACA	Nicolás Gabriel	-12	2.35	3,000	286.9	1.41	6381.1	8.356		70	122	150.5	1225	1,000	0.61	77.568	0.244	411.77	7.26	(perdidas de la cañera(m))
107	MORALES dos SANTOS	José Ignacio	-12.4	2.36	3,020	286.9	1.41				70.6	123	150.6	1230	1,000	0.61					
108	MOYANO	Facundo Gastón	-12.8	2.37	3,040	286.9	1.41				71.2	124	150.7	1235	1,000	0.61					
109	MUÑOZ	Nahuel Matías	-13.2	2.38	3,060	286.9	1.41	6608.75	8.565		71.8	125	150.8	1240	1,000	0.61	79.034	0.24	415.589		
110	NAJUL	Juan Francisco	-13.6	2.39	3,080	286.9	1.41				72.4	126	150.9	1245	1,000	0.61					
111	NANCLARES	Guadalupe	-14	2.4	3,100	286.9	1.41	6,764.74	8.708		73	127	151	1250	1,000	0.61	80.195	0.238	416.9	7.19	Pérdidas en cañería [m]
112	NAVARRO CANGAS	Álvaro	-14.4	2.41	3,120	286.9	1.41				73.6	128	151.1	1255	1,000	0.61					
113	NEJIS	Jorge Gabriel	-14.8	2.42	3,140	286.9	1.41				74.2	129	151.2	1260	1,000	0.61					
114	Niella	Tomás	-15.2	2.43	3,160	286.9	1.41	6,998.60	8.92		74.8	130	151.3	1265	1,000	0.61	81.68	0.23	404.74	6.88	Pérdidas en cañería (m)
115	NIETO	Augusto	-15.6	2.44	3,180	286.9	1.41	7,078.37	8.99		75.4	131	151.4	1270	1,000	0.61	82.45	0.233	419.3		
116	ORLANDI	Franco Daniel	-16	2.45	3,200	286.9	1.41	7157.9	9.06		76	132	151.5	1275	1,000	0.62	82.98	0.23	410.4	6.98	Pérdidas en cañería [m]
117	ORTIZ MALDONADO	Ignacio	-16.4	2.46	3,220	286.9	1.41	7237.337	9.131		76.6	133	7	1280	1,000	0.62	83.888	0.23	414.93	7.036	Pérdidas en cañería [m]
118	PAGES	Julian	-16.8	2.47	3,240	286.9	1.41	7318.37	9.2		77.2	134	151.7	1285	1,000	0.62	84.24	0.229	414.86	7.03	Pérdidas en cañería [m]
119	PALMA	Sofía	-17.2	2.48	3,260	286.9	1.41	7398.44	9.274		77.8	135	151.8	1290	1,000	0.62	84.811	0.2278	415.62	7.0055	Pérdidas en cañería [m]
120	PEGORIN	Juan Manuel	-17.6	2.49	3,280	286.9	1.41	7,476.70	9.37		78.4	136	151.9	1295	1,000	0.62	85.35	0.2267	410.55		
121	PEÑA	Lautaro Hugo	-18	2.5	3,300	286.9	1.41	7,557.88	9.41		79	137	152	1300	1,000	0.62	86.19	0.225	417.05		
122	PERALTA	Andrés Agustín	-18.4	2.51	3,320	286.9	1.41	7643.29	9.489		79.6	138	152.1	1305	1,000	0.62	86.53	0.2241	416.88	6.93	Pérdidas en cañería [m]
123	PERALTA SALATINO	Bruno Francisco	-18.8	2.52	3,340	286.9	1.41				80.2	139	152.2	1310	1,000	0.62					
124	PÉREZ ABALLAY	Luciana Nahir	-19.2	2.53	3,360	286.9	1.41				80.8	140	152.3	1315	1,000	0.62					
125	PEREZ VARALTA	Rodrigo Agustín	-19.6	2.54	3,380	286.9	1.41				81.4	141	152.4	1320	1,000	0.62					
126	PIASTRELLINI	Nicolás																			

128	PRATO	Yago Enrique	-20.8	2.57	3,440	286.9	1.41	8210	10		83.2	144	152.7	1335	1,000	0.63						
129	QUIROGA SOTTILE	Analia Ruth	-21.2	2.58	3,460	286.9	1.41	8231	10.03		83.8	145	152.8	1340	1,000	0.63	90.5	0.215	405.88	Pérdidas en la cañería = 6.70 [m]		
130	Ramírez	Sergio Daniel	-21.6	2.59	3,480	286.9	1.41				84.4	146	152.9	1345	1,000	0.63						
131	RAMOS	Maximiliano Joel	-22	2.6	3,500	286.9	1.41				85	147	153	1350	1,000	0.63						
132	RODRIGUEZ LA ROSA	Fernando Jorge	-22.4	2.61	3,520	286.9	1.41	8486.04	10.21		85.6	148	153.1	1355	1,000	0.63	92.2	0.212	407.93			
133	Rodriguez Lopez	Matias Alejandro	-22.8	2.62	3,540	286.9	1.41	8,564.88	10.28		86.2	149	153.2	1360	1,000	0.63	92.81	0.21	412.3	6.57 pérdidas en metros		
134	ROMEO MALANCA	Paulina	-23.2	2.63	3,560	286.9	1.41				86.8	150	153.3	1365	1,000	0.63						
135	ROMERO	Franco Emmanu	-23.6	2.64	3,580	286.9	1.41				87.4	151	153.4	1370	1,000	0.63						
136	ROMERO	Lucas	-24	2.65	3,600	286.9	1.41	8834.75	10.5		88	152	153.5	1375	1,000	0.64	94.53	0.207	407.3	6.51 perdida en metros		
137	ROSSI	Julieta Noemi	-24.4	2.66	3,620	286.9	1.41				88.6	153	153.6	1380	1,000	0.64						
138	ROYO	Lourdes	-24.8	2.67	3,640	286.9	1.41	9,013.84	10.65		89.2	154	153.7	1385	1,000	0.64	95.66	0.2047	407.95			
139	RUBIO	Luciana Celeste	-25.2	2.68	3,660	286.9	1.41	9,099.90	10.72		89.8	155	153.8	1390	1,000	0.64	95.95	0.204	401.77			
140	RUGGERI	Cristian Alejandr	-25.6	2.69	3,680	286.9	1.41	9191.35	10.8		90.4	156	153.9	1395	1,000	0.64	96.787	0.20234	407.998	6.387 Perdidas en cañería en metros		
141	SAAVEDRA	Mario José	-26	2.7	3,700	286.9	1.41	3,437	10.88		91	157	154	1400	1,000	0.64	97.135	0.2011	407	6.35 pérdidas en cañería en metros		
142	SABATTINI	Maria Virginia	-26.4	2.71	3,720	286.9	1.41	9,369.75	10.95		91.6	158	154.1	1405	1,000	0.64	97.9	0.2	407.92	6.32 Perdidas en cañería en metros		
143	SALAZAR GARCIA	Rafael David	-26.8	2.72	3,740	286.9	1.41	9,460.35	11.02		92.2	159	154.2	1410	1,000	0.64	98.46	0.198	406.16	6.23 Pérdidas en la cañería		
144	SALVARREDI	Agustina	-27.2	2.73	3,760	286.9	1.41	9555.09	11.14		92.8	160	154.3	1415	1,000	0.64	99.05	0.1976	407.75	6.24 Perdidas en cañería (m)		
145	Sanchez	Facundo	-27.6	2.74	3,780	286.9	1.41	9645.42	11.17		93.4	161	154.4	1420	1,000	0.64	99.61	0.1964	407.57	6.21 Perdidas en cañería (m)		
146	SANCHEZ THEA	Aldana Valentina	-28	2.75	3,800	286.9	1.41	9736.45	11.25		94	162	154.5	1425	1,000	0.65	100.203	0.1952	401.223			
147	Sansone	Zacarías	-28.4	2.76	3,820	286.9	1.41	9819.03	11.33		94.6	163	154.6	1430	1,000	0.65	100.78	0.194	401.05	6.13 Perdidas en cañería (m)		
148	SANTI	Micaela Rocío	-28.8	2.77	3,840	286.9	1.41	9920.64	11.39		95.2	164	154.7	1435	1,000	0.65	101.3	0.193	401.044	6.1 Perdidas en cañería (m)		
149	SANTIAGO	Marcos German	-29.2	2.78	3,860	286.9	1.41	10066.15	11.53		95.8	165	154.8	1440	1,000	0.65	101.882	0.1917	400.09			
150	SANTILLI	Franco Nicolas	-29.6	2.79	3,880	286.9	1.41	10102.88	11.54		96.4	166	154.9	1445	1,000	0.65	102.43	0.1906	399.93			
151	SANTOS	Ester Noemí	-30	2.8	3,900	286.9	1.41				97	167	155	1450	1,000	0.65						
152	SEPULVEDA	Brian Adrián Exe	-30.4	2.81	3,920	286.9	1.41	10292.41	11.69		97.6	168	155.1	1455	1,000	0.65	103.66	0.19	404.01			
153	SOSA	Franco Emir	-30.8	2.82	3,940	286.9	1.41	10,389.33	11.77		98.2	169	155.2	1460	1,000	0.65	104.1097	0.187	399.35	5.9097 Perdidas en Cañería [m]		
154	SOSA DORIGUTTI	Agostina	-31.2	2.83	3,960	286.9	1.41				98.8	170	155.3	1465	1,000	0.65						
155	SOTAR MAIDANA	David Maximiliar	-31.6	2.84	3,980	286.9	1.41	10579.316	11.916		99.4	171	155.4	1470	1,000	0.65	105.25	0.1847	398.55	5.833 Perdidas en Cañería [m]		
156	STELLA	Juan	-32	2.85	4,000	286.9	1.41	10675.2	11.996		100	172	155.5	1475	1,000	0.66	105.56	0.184	386.75	5.82 Perdidas en Cañería [m]		
157	SUAREZ	Tomás Mauricio	-32.4	2.86	4,020	286.9	1.41	10,769.16	12.069		100.6	173	155.6	1480	1,000	0.66	106.36	0.1824	391.92			
158	TAGAROT	Renzo Ariel	-32.8	2.87	4,040	286.9	1.41	10869.9	12.15		101.2	174	155.7	1485	1,000	0.66	106.9	0.181	390.89	5.7		
159	Tejeda Dominguez	Francisco	-33.2	2.88	4,060	286.9	1.41	10,963.80	12.22		101.8	175	155.8	1490	1,000	0.66	107.524	0.18	390.996			
160	TELLO	Enzo Gabriel	-33.6	2.89	4,080	286.9	1.41	11064.95	12.303		102.4	176	155.9	1495	1,000	0.66	108.04	0.179	390.69			
161	TORRENT	Sol	-34	2.9	4,100	286.9	1.41	11,161.90	12.38		103	177	156	1500	1,000	0.66	108.5	0.178	390.2			
162	TRÍPOLI	Natalia Ariana	-34.4	2.91	4,120	286.9	1.41	11256.5	12.45		103.6	178	156.1	1505	1,000	0.66	109.48	0.176	389.27	5.51 Perdidas en cañería [m]		
163	VANRRELL MARTINEZ	Hernán Nicolás	-34.8	2.92	4,140	286.9	1.41				104.2	179	156.2	1510	1,000	0.66						
164	Vega	Lautaro	-35.2	2.93	4,160	286.9	1.41	11454.14	12.604		104.8	180	156.3	1515	1,000	0.66	110.25	0.174	387.55	5.45 Perdidas en Cañería [m]		
165	VIDELA	Ana Clara Anton	-35.6	2.94	4,180	286.9	1.41	11556.57	12.68		105.4	181	156.4	1520	1,000	0.66	110.855	0.1731	387.65	5.423 Pérdidas en cañería (m)		
166	Vignolo	Alan	-36	2.95	4,200	286.9	1.41	11659.56	12.76		106	182	156.5	1525	1,000	0.67	111.38	0.172	375.77	5.38		
167	VILLASANTE ESPÓSITO	Ernesto	-36.4	2.96	4,220	286.9	1.41	11,757.22	12.839		106.6	183	156.6	1530	1,000	0.67	111.969	0.171	375.111	5.338		
168	VITELLI	Gabriel Nicolás	-36.8	2.97	4,240	286.9	1.41	11,857.96	12.916		107.2	184	156.7	1535	1,000	0.67	112.495	0.1697	379.763	5.298		
169	VON KATONA	Renata	-37.2	2.98	4,260	286.9	1.41	11,963.47	12.994		107.8	185	156.8	1540	1,000	0.67	113.055	0.1685	379.1			
170	WURSTEN	Abril Belén	-37.6	2.99	4,280	286.9	1.41	12,059.60	13.066		108.4	186	156.9	1545	1,000	0.67	113.605	0.1674	378.457			
171	ZAINA	Guillermo Román	-38	3	4,300	286.9	1.41	12,162.33	13.15		109	187	157	1550	1,000	0.67	114.17	0.1662	377.17			
172	ZARAGOZA	Sebastián Emanu	-38.4	3.01	4,320	286.9	1.41	12,264.57	13.2153		109.6	188	157.1	1555	1,000	0.67	114.7245	0.1651	376.807	5.1245 Perd. Cañería (m)		