



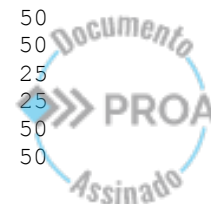
**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

**MEMORIAL DE CÁLCULO – MODELAGEM DA REDE – SEPÉ TIARAJÚ III -
SANTANA DO LIVRAMENTO**

* EPANET 2.0 Brasil *
* Hidráulica e Qualidade da Água *
* Simulação da Rede *
* Versão 2.00.11 *

Tabela de Trecho - Nó:

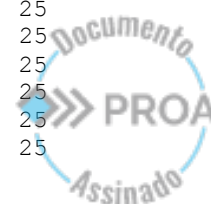
Trecho: ID	Início: Nó	Fim: Nó	Comprimento m	Diâmetro mm
T2	PV-1	U16	131.12	50
T3	U16	U6	194.00	50
T4	U6	Det-1	724.00	50
T5	Det-1	U5	100.00	50
T6	U5	U4	900.00	50
T7	U4	Det-2	181.00	50
T8	Det-2	U3	657.00	50
T9	U3	U2	506.00	50
T10	U2	U1	105.00	50
T11	U1	U12	825.00	50
T12	U12	U13	795.00	50
T13	U13	U14	330.00	50
T14	PV-1	U44	32.69	50
T15	U44	U17	140.00	50
T16	U17	U7	148.00	50
T17	U7	U39	555.00	50
T18	U39	U8	742.00	50
T19	U8	U40	186.00	50
T20	U40	U9	183.00	50
T21	U9	U41	145.00	50
T22	U41	U11	182.00	50
T23	U11	U10	132.00	50
T24	U10	U43	296.00	50
T25	U43	PV-2	314.00	50
T26	PV-2	U35	1490.00	50
T27	U35	Det-3	247.00	50
T28	Det-3	U22a	312.00	50
T29	U22a	U15	330.00	50
T30	U15	U22b	148.00	25
T31	PV-2	U34	76.00	50
T32	U34	U42	352.00	50
T33	U42	U31	171.00	50
T34	U31	U33	499.00	50
T35	U33	U32	225.00	25
T37	PV-3	U28	59.00	50
T38	U28	U29	168.16	50
T39	PV-3	U27	54.00	50
T40	U27	U30a	34	50
T41	U30a	Det-4	601.00	25
T42	Det-4	U30	842.00	25
T43	U30a	U26	67	50
T44	U26	U25	189.00	50





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

Trecho: ID	Início: Nó	Fim: Nó	Comprimento m	Diâmetro mm
T46	PV-4	U18	445.00	25
T47	PV-4	U20	83.00	50
T48	U20	U21	256.00	50
T49	U21	PV-5	545.00	50
T50	PV-5	U19	246.00	50
T51	U19	U38	580	25
T52	PV-5	U23	222.00	50
T53	U23	U24	628.00	50
T54	U24	U37	59	50
T55	U37	U36	188	25
T56	U16	16	70.00	25
T57	U6	6	20.00	25
T58	U5	5	50.00	25
T59	U4	4	20.00	25
T60	U3	3	20.00	25
T61	U2	2	20.00	25
T62	U1	1	20.00	25
T63	U12	12	20.00	25
T64	U13	13	20.00	25
T65	U14	14	20.00	25
T66	U44	44	20.00	25
T67	U17	17	20.00	25
T68	U7	7	20.00	25
T69	U39	39	20.00	25
T70	U8	8	20.00	25
T71	U40	40	250.00	25
T72	U9	9	20.00	25
T73	U41	41	150.00	25
T74	U11	11	525	25
T75	U10	10	20.00	25
T76	U43	43	20.00	25
T77	U35	35	20.00	25
T78	U22a	22a	20.00	25
T79	U15	15	100.00	25
T80	U22b	22b	20.00	25
T81	U34	34	530.00	25
T82	U42	42	20.00	25
T83	U31	31	20.00	25
T84	U33	33	150.00	25
T85	U32	32	20.00	25
T86	U28	28	20.00	25
T87	U29	29	100	25
T88	U27	27	20.00	25
T89	U30	30	20.00	25
T90	U26	26	50	25
T91	U25	25	50.00	25
T92	U18	18	20.00	25
T93	U20	20	20.00	25
T94	U21	21	20.00	25
T95	U19	19	20.00	25
T96	U38	38	20.00	25
T97	U23	23	178.00	25
T98	U24	24	20.00	25
T99	U37	37	168	25





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

Trecho: ID	Início: Nó	Fim: Nó	Comprimento m	Diâmetro mm
T100	U36	36	145	25
T104	LO-01	LO-02	10	50
T105	LO-02	LO-03	170	50
T106	LO-03	LO-04	232	50
T107	LO-04	pv-10	895	50
T108	pv-10	LO-05	150	50
T109	LO-05	LO-06	95	50
T110	LO-06	LO-07	360	50
T111	LO-07	LO-08	185	50
T112	LO-08	U29	55	50
T113	U25	PV-06	542	50
T114	PV-4	PV-06	290	50
T115	PV-06	LO-10	262	50
T116	LO-10	LO-11	134	50
T117	LO-11	LO-12	265	50
T118	LO-12	LO-13	220	50
T119	LO-13	LO-14	253	50
T120	LO-14	LO-15	365	50
T121	LO-01	C-01	260	25
T122	LO-02	C-02	43	25
T123	LO-03	C-03	160	25
T124	LO-04	C-04	35	25
T125	LO-05	C-05	27	25
T126	LO-06	C-06	60	25
T127	LO-07	C-07	117	25
T128	LO-08	C-08	580	25
T129	U28	C-09	110	25
T130	LO-10	C-10	110	25
T131	LO-12	C-12	395	25
T132	LO-12	C-12B	555	25
T133	LO-13	C-13	26	25
T134	LO-14	C-14	16	25
T135	LO-15	C-15	162	25
T136	LO-15	C-16	668	25
T137	r-1	U29	20	50
T01	RESERVATORIO_02Det-1		10	50
T138	LO-11	C-11	28	25

Resultados nos Nós às 0:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.64	20.64	0.00
2	0.02	199.65	20.65	0.00
3	0.02	199.69	20.69	0.00
4	0.02	199.80	11.80	0.00
5	0.02	199.95	10.95	0.00
6	0.02	198.95	14.95	0.00
7	0.02	198.21	13.21	0.00
8	0.02	197.15	24.15	0.00
9	0.02	196.91	20.91	0.00
10	0.02	196.69	18.69	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

11	0.02	196.68	27.68	0.00
12	0.02	199.61	37.61	0.00
13	0.02	199.60	28.60	0.00
14	0.02	199.60	15.60	0.00
15	0.02	196.39	8.39	0.00
16	0.02	198.69	15.69	0.00
17	0.02	198.36	14.36	0.00
18	0.02	204.63	22.63	0.00
19	0.02	204.55	17.55	0.00
20	0.02	204.67	15.67	0.00
21	0.02	204.63	16.63	0.00
22a	0.02	196.40	15.40	0.00
22b	0.02	196.38	19.38	0.00
23	0.02	204.52	25.52	0.00
24	0.02	204.52	23.52	0.00
25	0.02	205.24	22.24	0.00
26	0.02	205.42	13.42	0.00
27	0.02	205.54	10.54	0.00
28	0.02	205.68	8.68	0.00
29	0.02	205.93	12.93	0.00
30	0.02	205.30	35.30	0.00
31	0.02	196.48	23.48	0.00
32	0.02	196.44	25.44	0.00
33	0.02	196.45	21.45	0.00
34	0.02	196.44	16.44	0.00
35	0.02	196.42	22.42	0.00
36	0.02	204.48	35.48	0.00
37	0.02	204.50	30.50	0.00
38	0.02	204.48	25.48	0.00
39	0.02	197.73	12.73	0.00
40	0.02	196.99	17.99	0.00
41	0.02	196.81	19.81	0.00
42	0.02	196.48	21.48	0.00
43	0.02	196.60	20.60	0.00
44	0.02	198.51	13.51	0.00
C-01	0.02	205.74	25.74	0.00
C-02	0.02	205.77	24.77	0.00
C-03	0.02	205.75	17.75	0.00
C-04	0.02	205.78	17.78	0.00
C-05	0.02	205.84	9.84	0.00
C-06	0.02	205.85	9.85	0.00
C-07	0.02	205.88	12.88	0.00
C-08	0.02	205.85	25.85	0.00
C-09	0.02	205.67	11.67	0.00
C-10	0.02	204.70	18.70	0.00
C-11	0.02	204.69	16.69	0.00
C-12	0.02	204.60	22.60	0.00
C-12B	0.02	204.58	22.58	0.00
C-13	0.02	204.64	20.64	0.00
C-14	0.02	204.63	20.63	0.00
C-15	0.02	204.61	22.61	0.00
C-16	0.02	204.54	21.54	0.00
LO-01	0.00	205.77	24.77	0.00
LO-02	0.00	205.77	24.77	0.00
LO-03	0.00	205.78	16.78	0.00
LO-04	0.00	205.78	19.78	0.00
LO-05	0.00	205.85	8.85	0.00
LO-06	0.00	205.85	9.85	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

LO-07	0.00	205.90	11.90	0.00
LO-08	0.00	205.93	12.93	0.00
LO-10	0.00	204.71	18.71	0.00
LO-11	0.00	204.69	16.69	0.00
LO-12	0.00	204.66	18.66	0.00
LO-13	0.00	204.64	20.64	0.00
LO-14	0.00	204.63	20.63	0.00
LO-15	0.00	204.63	20.63	0.00
pv-10	0.00	205.84	9.84	0.00
U1	0.00	199.64	20.64	0.00
U2	0.00	199.65	21.65	0.00
U3	0.00	199.69	19.69	0.00
U4	0.00	199.80	12.80	0.00
U5	0.00	199.95	10.95	0.00
U6	0.00	198.95	13.95	0.00
U7	0.00	198.22	12.22	0.00
U8	0.00	197.15	22.15	0.00
U9	0.00	196.91	20.91	0.00
U10	0.00	196.70	17.70	0.00
U11	0.00	196.75	17.75	0.00
U12	0.00	199.61	36.61	0.00
U13	0.00	199.60	26.60	0.00
U14	0.00	199.60	14.60	0.00
U15	0.00	196.40	10.40	0.00
U16	0.00	198.70	15.70	0.00
U17	0.00	198.36	13.36	0.00
U18	0.00	204.63	23.63	0.00
U19	0.00	204.56	17.56	0.00
U20	0.00	204.67	15.67	0.00
U21	0.00	204.63	15.63	0.00
U22a	0.00	196.41	16.41	0.00
U22b	0.00	196.38	17.38	0.00
U23	0.00	204.55	21.55	0.00
U24	0.00	204.53	22.53	0.00
U25	0.00	205.24	21.24	0.00
U26	0.00	205.43	12.43	0.00
U27	0.00	205.54	10.54	0.00
U28	0.00	205.69	8.69	0.00
U29	0.00	205.94	9.94	0.00
U30a	0.00	205.50	11.50	0.00
U30	0.00	205.31	35.31	0.00
U31	0.00	196.48	22.48	0.00
U32	0.00	196.44	23.44	0.00
U33	0.00	196.47	20.47	0.00
U34	0.00	196.51	17.51	0.00
U35	0.00	196.43	21.43	0.00
U36	0.00	204.50	29.50	0.00
U37	0.00	204.52	23.52	0.00
U38	0.00	204.48	25.48	0.00
U39	0.00	197.73	11.73	0.00
U40	0.00	197.02	20.02	0.00
U41	0.00	196.83	19.83	0.00
U42	0.00	196.49	20.49	0.00
U43	0.00	196.60	20.60	0.00
U44	0.00	198.51	13.51	0.00
PV-1	0.00	198.55	13.55	0.00
PV-2	0.00	196.51	17.51	0.00
PV-3	0.00	205.61	9.61	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

PV-4	0.00	204.69	15.69	0.00
PV-5	0.00	204.56	20.56	0.00
Det-1	0.00	199.97	9.97	0.00
Det-2	0.00	199.78	15.78	0.00
Det-3	0.00	196.42	29.42	0.00
Det-4	0.00	205.42	20.42	0.00
PV-06	0.00	204.77	19.77	0.00
r-1	-0.58	206.00	10.00	0.00 RNV
RESERVATORIO_02	-0.54	200.00	10.00	0.00 RNV

Resultados nos Trechos às 0:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	0.36	0.18	1.18	Open
T3	0.38	0.19	1.29	Open
T4	0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	0.38	0.19	1.29	Open
T38	0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	0.02	0.01	0.00	Open
T105	0.04	0.02	0.02	Open
T106	0.05	0.03	0.04	Open
T107	0.07	0.04	0.06	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T108	0.07	0.04	0.06	Open
T109	0.09	0.05	0.09	Open
T110	0.11	0.06	0.13	Open
T111	0.13	0.06	0.17	Open
T112	0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.13	Open
T125	0.02	0.04	0.13	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.50	Open
T138	0.02	0.04	0.13	Open

Resultados nos Nós às 4:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.64	20.64	0.00
2	0.02	199.64	20.64	0.00
3	0.02	199.69	20.69	0.00
4	0.02	199.79	11.79	0.00
5	0.02	199.94	10.94	0.00
6	0.02	198.95	14.95	0.00
7	0.02	198.21	13.21	0.00
8	0.02	197.14	24.14	0.00
9	0.02	196.90	20.90	0.00
10	0.02	196.69	18.69	0.00
11	0.02	196.67	27.67	0.00
12	0.02	199.61	37.61	0.00
13	0.02	199.59	28.59	0.00
14	0.02	199.59	15.59	0.00
15	0.02	196.38	8.38	0.00
16	0.02	198.69	15.69	0.00
17	0.02	198.35	14.35	0.00
18	0.02	204.62	22.62	0.00
19	0.02	204.55	17.55	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

20	0.02	204.67	15.67	0.00
21	0.02	204.62	16.62	0.00
22a	0.02	196.40	15.40	0.00
22b	0.02	196.37	19.37	0.00
23	0.02	204.52	25.52	0.00
24	0.02	204.52	23.52	0.00
25	0.02	205.23	22.23	0.00
26	0.02	205.42	13.42	0.00
27	0.02	205.53	10.53	0.00
28	0.02	205.68	8.68	0.00
29	0.02	205.93	12.93	0.00
30	0.02	205.30	35.30	0.00
31	0.02	196.47	23.47	0.00
32	0.02	196.44	25.44	0.00
33	0.02	196.45	21.45	0.00
34	0.02	196.43	16.43	0.00
35	0.02	196.42	22.42	0.00
36	0.02	204.48	35.48	0.00
37	0.02	204.50	30.50	0.00
38	0.02	204.47	25.47	0.00
39	0.02	197.72	12.72	0.00
40	0.02	196.98	17.98	0.00
41	0.02	196.81	19.81	0.00
42	0.02	196.48	21.48	0.00
43	0.02	196.59	20.59	0.00
44	0.02	198.50	13.50	0.00
C-01	0.02	205.73	25.73	0.00
C-02	0.02	205.76	24.76	0.00
C-03	0.02	205.75	17.75	0.00
C-04	0.02	205.77	17.77	0.00
C-05	0.02	205.84	9.84	0.00
C-06	0.02	205.84	9.84	0.00
C-07	0.02	205.88	12.88	0.00
C-08	0.02	205.85	25.85	0.00
C-09	0.02	205.67	11.67	0.00
C-10	0.02	204.69	18.69	0.00
C-11	0.02	204.68	16.68	0.00
C-12	0.02	204.60	22.60	0.00
C-12B	0.02	204.58	22.58	0.00
C-13	0.02	204.64	20.64	0.00
C-14	0.02	204.63	20.63	0.00
C-15	0.02	204.60	22.60	0.00
C-16	0.02	204.53	21.53	0.00
LO-01	0.00	205.77	24.77	0.00
LO-02	0.00	205.77	24.77	0.00
LO-03	0.00	205.77	16.77	0.00
LO-04	0.00	205.78	19.78	0.00
LO-05	0.00	205.84	8.84	0.00
LO-06	0.00	205.85	9.85	0.00
LO-07	0.00	205.90	11.90	0.00
LO-08	0.00	205.93	12.93	0.00
LO-10	0.00	204.71	18.71	0.00
LO-11	0.00	204.69	16.69	0.00
LO-12	0.00	204.65	18.65	0.00
LO-13	0.00	204.64	20.64	0.00
LO-14	0.00	204.63	20.63	0.00
LO-15	0.00	204.62	20.62	0.00
pv-10	0.00	205.83	9.83	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U1	0.00	199.64	20.64	0.00
U2	0.00	199.64	21.64	0.00
U3	0.00	199.69	19.69	0.00
U4	0.00	199.80	12.80	0.00
U5	0.00	199.95	10.95	0.00
U6	0.00	198.95	13.95	0.00
U7	0.00	198.21	12.21	0.00
U8	0.00	197.15	22.15	0.00
U9	0.00	196.90	20.90	0.00
U10	0.00	196.69	17.69	0.00
U11	0.00	196.74	17.74	0.00
U12	0.00	199.61	36.61	0.00
U13	0.00	199.60	26.60	0.00
U14	0.00	199.59	14.59	0.00
U15	0.00	196.40	10.40	0.00
U16	0.00	198.70	15.70	0.00
U17	0.00	198.35	13.35	0.00
U18	0.00	204.63	23.63	0.00
U19	0.00	204.55	17.55	0.00
U20	0.00	204.67	15.67	0.00
U21	0.00	204.63	15.63	0.00
U22a	0.00	196.40	16.40	0.00
U22b	0.00	196.38	17.38	0.00
U23	0.00	204.54	21.54	0.00
U24	0.00	204.52	22.52	0.00
U25	0.00	205.24	21.24	0.00
U26	0.00	205.42	12.42	0.00
U27	0.00	205.54	10.54	0.00
U28	0.00	205.68	8.68	0.00
U29	0.00	205.94	9.94	0.00
U30a	0.00	205.50	11.50	0.00
U30	0.00	205.30	35.30	0.00
U31	0.00	196.48	22.48	0.00
U32	0.00	196.44	23.44	0.00
U33	0.00	196.47	20.47	0.00
U34	0.00	196.50	17.50	0.00
U35	0.00	196.42	21.42	0.00
U36	0.00	204.50	29.50	0.00
U37	0.00	204.52	23.52	0.00
U38	0.00	204.47	25.47	0.00
U39	0.00	197.73	11.73	0.00
U40	0.00	197.02	20.02	0.00
U41	0.00	196.83	19.83	0.00
U42	0.00	196.48	20.48	0.00
U43	0.00	196.60	20.60	0.00
U44	0.00	198.51	13.51	0.00
PV-1	0.00	198.54	13.54	0.00
PV-2	0.00	196.51	17.51	0.00
PV-3	0.00	205.61	9.61	0.00
PV-4	0.00	204.69	15.69	0.00
PV-5	0.00	204.56	20.56	0.00
Det-1	0.00	199.97	9.97	0.00
Det-2	0.00	199.77	15.77	0.00
Det-3	0.00	196.41	29.41	0.00
Det-4	0.00	205.41	20.41	0.00
PV-06	0.00	204.77	19.77	0.00
r-1	-0.58	206.00	10.00	0.00 RNV
RESERVATORIO_02	-0.54	200.00	10.00	0.00 RNV





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

Resultados nos Trechos às 4:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.00	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.13	Open
T125	0.02	0.04	0.13	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.50	Open
T138	0.02	0.04	0.13	Open

Resultados nos Nós às 8:00 Horas:

Nó	Consumo	Carga Hidráulica	Pressão	Qualidade
ID	LPS	m	m	
1	0.02	199.63	20.63	0.00
2	0.02	199.64	20.64	0.00
3	0.02	199.68	20.68	0.00
4	0.02	199.79	11.79	0.00
5	0.02	199.94	10.94	0.00
6	0.02	198.94	14.94	0.00
7	0.02	198.20	13.20	0.00
8	0.02	197.14	24.14	0.00
9	0.02	196.90	20.90	0.00
10	0.02	196.69	18.69	0.00
11	0.02	196.67	27.67	0.00
12	0.02	199.60	37.60	0.00
13	0.02	199.59	28.59	0.00
14	0.02	199.59	15.59	0.00
15	0.02	196.38	8.38	0.00
16	0.02	198.69	15.69	0.00
17	0.02	198.35	14.35	0.00
18	0.02	204.62	22.62	0.00
19	0.02	204.55	17.55	0.00
20	0.02	204.66	15.66	0.00
21	0.02	204.62	16.62	0.00
22a	0.02	196.40	15.40	0.00
22b	0.02	196.37	19.37	0.00
23	0.02	204.52	25.52	0.00
24	0.02	204.51	23.51	0.00
25	0.02	205.23	22.23	0.00
26	0.02	205.41	13.41	0.00
27	0.02	205.53	10.53	0.00
28	0.02	205.67	8.67	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

29	0.02	205.92	12.92	0.00
30	0.02	205.29	35.29	0.00
31	0.02	196.47	23.47	0.00
32	0.02	196.43	25.43	0.00
33	0.02	196.44	21.44	0.00
34	0.02	196.43	16.43	0.00
35	0.02	196.41	22.41	0.00
36	0.02	204.47	35.47	0.00
37	0.02	204.49	30.49	0.00
38	0.02	204.47	25.47	0.00
39	0.02	197.72	12.72	0.00
40	0.02	196.98	17.98	0.00
41	0.02	196.80	19.80	0.00
42	0.02	196.48	21.48	0.00
43	0.02	196.59	20.59	0.00
44	0.02	198.50	13.50	0.00
C-01	0.02	205.73	25.73	0.00
C-02	0.02	205.76	24.76	0.00
C-03	0.02	205.75	17.75	0.00
C-04	0.02	205.77	17.77	0.00
C-05	0.02	205.83	9.83	0.00
C-06	0.02	205.84	9.84	0.00
C-07	0.02	205.88	12.88	0.00
C-08	0.02	205.85	25.85	0.00
C-09	0.02	205.66	11.66	0.00
C-10	0.02	204.69	18.69	0.00
C-11	0.02	204.68	16.68	0.00
C-12	0.02	204.60	22.60	0.00
C-12B	0.02	204.57	22.57	0.00
C-13	0.02	204.63	20.63	0.00
C-14	0.02	204.62	20.62	0.00
C-15	0.02	204.60	22.60	0.00
C-16	0.02	204.53	21.53	0.00
LO-01	0.00	205.76	24.76	0.00
LO-02	0.00	205.76	24.76	0.00
LO-03	0.00	205.77	16.77	0.00
LO-04	0.00	205.77	19.77	0.00
LO-05	0.00	205.84	8.84	0.00
LO-06	0.00	205.85	9.85	0.00
LO-07	0.00	205.89	11.89	0.00
LO-08	0.00	205.92	12.92	0.00
LO-10	0.00	204.70	18.70	0.00
LO-11	0.00	204.68	16.68	0.00
LO-12	0.00	204.65	18.65	0.00
LO-13	0.00	204.64	20.64	0.00
LO-14	0.00	204.63	20.63	0.00
LO-15	0.00	204.62	20.62	0.00
pv-10	0.00	205.83	9.83	0.00
U1	0.00	199.63	20.63	0.00
U2	0.00	199.64	21.64	0.00
U3	0.00	199.69	19.69	0.00
U4	0.00	199.79	12.79	0.00
U5	0.00	199.95	10.95	0.00
U6	0.00	198.95	13.95	0.00
U7	0.00	198.21	12.21	0.00
U8	0.00	197.14	22.14	0.00
U9	0.00	196.90	20.90	0.00
U10	0.00	196.69	17.69	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U11	0.00	196.74	17.74	0.00
U12	0.00	199.61	36.61	0.00
U13	0.00	199.59	26.59	0.00
U14	0.00	199.59	14.59	0.00
U15	0.00	196.39	10.39	0.00
U16	0.00	198.70	15.70	0.00
U17	0.00	198.35	13.35	0.00
U18	0.00	204.62	23.62	0.00
U19	0.00	204.55	17.55	0.00
U20	0.00	204.67	15.67	0.00
U21	0.00	204.62	15.62	0.00
U22a	0.00	196.40	16.40	0.00
U22b	0.00	196.37	17.37	0.00
U23	0.00	204.54	21.54	0.00
U24	0.00	204.52	22.52	0.00
U25	0.00	205.24	21.24	0.00
U26	0.00	205.42	12.42	0.00
U27	0.00	205.53	10.53	0.00
U28	0.00	205.68	8.68	0.00
U29	0.00	205.94	9.94	0.00
U30a	0.00	205.49	11.49	0.00
U30	0.00	205.30	35.30	0.00
U31	0.00	196.47	22.47	0.00
U32	0.00	196.43	23.43	0.00
U33	0.00	196.46	20.46	0.00
U34	0.00	196.50	17.50	0.00
U35	0.00	196.42	21.42	0.00
U36	0.00	204.49	29.49	0.00
U37	0.00	204.52	23.52	0.00
U38	0.00	204.47	25.47	0.00
U39	0.00	197.72	11.72	0.00
U40	0.00	197.01	20.01	0.00
U41	0.00	196.82	19.82	0.00
U42	0.00	196.48	20.48	0.00
U43	0.00	196.59	20.59	0.00
U44	0.00	198.50	13.50	0.00
PV-1	0.00	198.54	13.54	0.00
PV-2	0.00	196.51	17.51	0.00
PV-3	0.00	205.60	9.60	0.00
PV-4	0.00	204.68	15.68	0.00
PV-5	0.00	204.55	20.55	0.00
Det-1	0.00	199.97	9.97	0.00
Det-2	0.00	199.77	15.77	0.00
Det-3	0.00	196.41	29.41	0.00
Det-4	0.00	205.41	20.41	0.00
PV-06	0.00	204.76	19.76	0.00
r-1	-0.58	205.99	9.99	0.00 RNV
RESERVATORIO_02	-0.54	199.99	9.99	0.00 RNV





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

Resultados nos Trechos às 8:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.00	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.13	Open
T125	0.02	0.04	0.13	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.50	Open
T138	0.02	0.04	0.13	Open

Resultados nos Nós às 12:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.63	20.63	0.00
2	0.02	199.63	20.63	0.00
3	0.02	199.68	20.68	0.00
4	0.02	199.79	11.79	0.00
5	0.02	199.93	10.93	0.00
6	0.02	198.94	14.94	0.00
7	0.02	198.20	13.20	0.00
8	0.02	197.13	24.13	0.00
9	0.02	196.89	20.89	0.00
10	0.02	196.68	18.68	0.00
11	0.02	196.67	27.67	0.00
12	0.02	199.60	37.60	0.00
13	0.02	199.59	28.59	0.00
14	0.02	199.58	15.58	0.00
15	0.02	196.37	8.37	0.00
16	0.02	198.68	15.68	0.00
17	0.02	198.34	14.34	0.00
18	0.02	204.62	22.62	0.00
19	0.02	204.54	17.54	0.00
20	0.02	204.66	15.66	0.00
21	0.02	204.62	16.62	0.00
22a	0.02	196.39	15.39	0.00
22b	0.02	196.37	19.37	0.00
23	0.02	204.51	25.51	0.00
24	0.02	204.51	23.51	0.00
25	0.02	205.22	22.22	0.00
26	0.02	205.41	13.41	0.00
27	0.02	205.52	10.52	0.00
28	0.02	205.67	8.67	0.00
29	0.02	205.92	12.92	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

30	0.02	205.29	35.29	0.00
31	0.02	196.47	23.47	0.00
32	0.02	196.43	25.43	0.00
33	0.02	196.44	21.44	0.00
34	0.02	196.42	16.42	0.00
35	0.02	196.41	22.41	0.00
36	0.02	204.47	35.47	0.00
37	0.02	204.49	30.49	0.00
38	0.02	204.46	25.46	0.00
39	0.02	197.71	12.71	0.00
40	0.02	196.97	17.97	0.00
41	0.02	196.80	19.80	0.00
42	0.02	196.47	21.47	0.00
43	0.02	196.58	20.58	0.00
44	0.02	198.49	13.49	0.00
C-01	0.02	205.72	25.72	0.00
C-02	0.02	205.75	24.75	0.00
C-03	0.02	205.74	17.74	0.00
C-04	0.02	205.77	17.77	0.00
C-05	0.02	205.83	9.83	0.00
C-06	0.02	205.83	9.83	0.00
C-07	0.02	205.87	12.87	0.00
C-08	0.02	205.84	25.84	0.00
C-09	0.02	205.66	11.66	0.00
C-10	0.02	204.69	18.69	0.00
C-11	0.02	204.67	16.67	0.00
C-12	0.02	204.59	22.59	0.00
C-12B	0.02	204.57	22.57	0.00
C-13	0.02	204.63	20.63	0.00
C-14	0.02	204.62	20.62	0.00
C-15	0.02	204.59	22.59	0.00
C-16	0.02	204.53	21.53	0.00
LO-01	0.00	205.76	24.76	0.00
LO-02	0.00	205.76	24.76	0.00
LO-03	0.00	205.76	16.76	0.00
LO-04	0.00	205.77	19.77	0.00
LO-05	0.00	205.83	8.83	0.00
LO-06	0.00	205.84	9.84	0.00
LO-07	0.00	205.89	11.89	0.00
LO-08	0.00	205.92	12.92	0.00
LO-10	0.00	204.70	18.70	0.00
LO-11	0.00	204.68	16.68	0.00
LO-12	0.00	204.64	18.64	0.00
LO-13	0.00	204.63	20.63	0.00
LO-14	0.00	204.62	20.62	0.00
LO-15	0.00	204.62	20.62	0.00
pv-10	0.00	205.82	9.82	0.00
U1	0.00	199.63	20.63	0.00
U2	0.00	199.64	21.64	0.00
U3	0.00	199.68	19.68	0.00
U4	0.00	199.79	12.79	0.00
U5	0.00	199.94	10.94	0.00
U6	0.00	198.94	13.94	0.00
U7	0.00	198.20	12.20	0.00
U8	0.00	197.14	22.14	0.00
U9	0.00	196.90	20.90	0.00
U10	0.00	196.68	17.68	0.00
U11	0.00	196.74	17.74	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U12	0.00	199.60	36.60	0.00
U13	0.00	199.59	26.59	0.00
U14	0.00	199.59	14.59	0.00
U15	0.00	196.39	10.39	0.00
U16	0.00	198.69	15.69	0.00
U17	0.00	198.35	13.35	0.00
U18	0.00	204.62	23.62	0.00
U19	0.00	204.54	17.54	0.00
U20	0.00	204.66	15.66	0.00
U21	0.00	204.62	15.62	0.00
U22a	0.00	196.39	16.39	0.00
U22b	0.00	196.37	17.37	0.00
U23	0.00	204.54	21.54	0.00
U24	0.00	204.51	22.51	0.00
U25	0.00	205.23	21.23	0.00
U26	0.00	205.42	12.42	0.00
U27	0.00	205.53	10.53	0.00
U28	0.00	205.67	8.67	0.00
U29	0.00	205.93	9.93	0.00
U30a	0.00	205.49	11.49	0.00
U30	0.00	205.29	35.29	0.00
U31	0.00	196.47	22.47	0.00
U32	0.00	196.43	23.43	0.00
U33	0.00	196.46	20.46	0.00
U34	0.00	196.50	17.50	0.00
U35	0.00	196.41	21.41	0.00
U36	0.00	204.49	29.49	0.00
U37	0.00	204.51	23.51	0.00
U38	0.00	204.47	25.47	0.00
U39	0.00	197.72	11.72	0.00
U40	0.00	197.01	20.01	0.00
U41	0.00	196.82	19.82	0.00
U42	0.00	196.48	20.48	0.00
U43	0.00	196.59	20.59	0.00
U44	0.00	198.50	13.50	0.00
PV-1	0.00	198.54	13.54	0.00
PV-2	0.00	196.50	17.50	0.00
PV-3	0.00	205.60	9.60	0.00
PV-4	0.00	204.68	15.68	0.00
PV-5	0.00	204.55	20.55	0.00
Det-1	0.00	199.96	9.96	0.00
Det-2	0.00	199.77	15.77	0.00
Det-3	0.00	196.40	29.40	0.00
Det-4	0.00	205.41	20.41	0.00
PV-06	0.00	204.76	19.76	0.00
r-1	-0.58	205.99	9.99	0.00 RNV
RESERVATORIO_02	-0.54	199.99	9.99	0.00 RNV

Resultados nos Trechos às 12:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.00	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.13	Open
T125	0.02	0.04	0.13	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.51	Open
T138	0.02	0.04	0.13	Open

Resultados nos Nós às 16:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.62	20.62	0.00
2	0.02	199.63	20.63	0.00
3	0.02	199.68	20.68	0.00
4	0.02	199.78	11.78	0.00
5	0.02	199.93	10.93	0.00
6	0.02	198.94	14.94	0.00
7	0.02	198.20	13.20	0.00
8	0.02	197.13	24.13	0.00
9	0.02	196.89	20.89	0.00
10	0.02	196.68	18.68	0.00
11	0.02	196.66	27.66	0.00
12	0.02	199.59	37.59	0.00
13	0.02	199.58	28.58	0.00
14	0.02	199.58	15.58	0.00
15	0.02	196.37	8.37	0.00
16	0.02	198.68	15.68	0.00
17	0.02	198.34	14.34	0.00
18	0.02	204.61	22.61	0.00
19	0.02	204.54	17.54	0.00
20	0.02	204.65	15.65	0.00
21	0.02	204.61	16.61	0.00
22a	0.02	196.39	15.39	0.00
22b	0.02	196.36	19.36	0.00
23	0.02	204.51	25.51	0.00
24	0.02	204.51	23.51	0.00
25	0.02	205.22	22.22	0.00
26	0.02	205.40	13.40	0.00
27	0.02	205.52	10.52	0.00
28	0.02	205.67	8.67	0.00
29	0.02	205.91	12.91	0.00
30	0.02	205.29	35.29	0.00
31	0.02	196.46	23.46	0.00
32	0.02	196.42	25.42	0.00
33	0.02	196.44	21.44	0.00
34	0.02	196.42	16.42	0.00
35	0.02	196.41	22.41	0.00
36	0.02	204.46	35.46	0.00
37	0.02	204.49	30.49	0.00
38	0.02	204.46	25.46	0.00
39	0.02	197.71	12.71	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

40	0.02	196.97	17.97	0.00
41	0.02	196.80	19.80	0.00
42	0.02	196.47	21.47	0.00
43	0.02	196.58	20.58	0.00
44	0.02	198.49	13.49	0.00
C-01	0.02	205.72	25.72	0.00
C-02	0.02	205.75	24.75	0.00
C-03	0.02	205.74	17.74	0.00
C-04	0.02	205.76	17.76	0.00
C-05	0.02	205.83	9.83	0.00
C-06	0.02	205.83	9.83	0.00
C-07	0.02	205.87	12.87	0.00
C-08	0.02	205.84	25.84	0.00
C-09	0.02	205.65	11.65	0.00
C-10	0.02	204.68	18.68	0.00
C-11	0.02	204.67	16.67	0.00
C-12	0.02	204.59	22.59	0.00
C-12B	0.02	204.57	22.57	0.00
C-13	0.02	204.62	20.62	0.00
C-14	0.02	204.62	20.62	0.00
C-15	0.02	204.59	22.59	0.00
C-16	0.02	204.52	21.52	0.00
LO-01	0.00	205.76	24.76	0.00
LO-02	0.00	205.76	24.76	0.00
LO-03	0.00	205.76	16.76	0.00
LO-04	0.00	205.77	19.77	0.00
LO-05	0.00	205.83	8.83	0.00
LO-06	0.00	205.84	9.84	0.00
LO-07	0.00	205.88	11.88	0.00
LO-08	0.00	205.91	12.91	0.00
LO-10	0.00	204.70	18.70	0.00
LO-11	0.00	204.67	16.67	0.00
LO-12	0.00	204.64	18.64	0.00
LO-13	0.00	204.63	20.63	0.00
LO-14	0.00	204.62	20.62	0.00
LO-15	0.00	204.61	20.61	0.00
pv-10	0.00	205.82	9.82	0.00
U1	0.00	199.63	20.63	0.00
U2	0.00	199.63	21.63	0.00
U3	0.00	199.68	19.68	0.00
U4	0.00	199.79	12.79	0.00
U5	0.00	199.94	10.94	0.00
U6	0.00	198.94	13.94	0.00
U7	0.00	198.20	12.20	0.00
U8	0.00	197.13	22.13	0.00
U9	0.00	196.89	20.89	0.00
U10	0.00	196.68	17.68	0.00
U11	0.00	196.73	17.73	0.00
U12	0.00	199.60	36.60	0.00
U13	0.00	199.58	26.58	0.00
U14	0.00	199.58	14.58	0.00
U15	0.00	196.38	10.38	0.00
U16	0.00	198.69	15.69	0.00
U17	0.00	198.34	13.34	0.00
U18	0.00	204.61	23.61	0.00
U19	0.00	204.54	17.54	0.00
U20	0.00	204.66	15.66	0.00
U21	0.00	204.61	15.61	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U22a	0.00	196.39	16.39	0.00
U22b	0.00	196.36	17.36	0.00
U23	0.00	204.53	21.53	0.00
U24	0.00	204.51	22.51	0.00
U25	0.00	205.23	21.23	0.00
U26	0.00	205.41	12.41	0.00
U27	0.00	205.52	10.52	0.00
U28	0.00	205.67	8.67	0.00
U29	0.00	205.93	9.93	0.00
U30a	0.00	205.48	11.48	0.00
U30	0.00	205.29	35.29	0.00
U31	0.00	196.47	22.47	0.00
U32	0.00	196.43	23.43	0.00
U33	0.00	196.46	20.46	0.00
U34	0.00	196.49	17.49	0.00
U35	0.00	196.41	21.41	0.00
U36	0.00	204.48	29.48	0.00
U37	0.00	204.51	23.51	0.00
U38	0.00	204.46	25.46	0.00
U39	0.00	197.71	11.71	0.00
U40	0.00	197.00	20.00	0.00
U41	0.00	196.82	19.82	0.00
U42	0.00	196.47	20.47	0.00
U43	0.00	196.58	20.58	0.00
U44	0.00	198.49	13.49	0.00
PV-1	0.00	198.53	13.53	0.00
PV-2	0.00	196.50	17.50	0.00
PV-3	0.00	205.59	9.59	0.00
PV-4	0.00	204.67	15.67	0.00
PV-5	0.00	204.54	20.54	0.00
Det-1	0.00	199.96	9.96	0.00
Det-2	0.00	199.76	15.76	0.00
Det-3	0.00	196.40	29.40	0.00
Det-4	0.00	205.40	20.40	0.00
PV-06	0.00	204.75	19.75	0.00
r-1	-0.58	205.98	9.98	0.00 RNV
RESERVATORIO_02	-0.54	199.98	9.98	0.00 RNV

Resultados nos Trechos às 16:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.00	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.13	Open
T125	0.02	0.04	0.14	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T01	0.54	0.28	2.51	Open
T138	0.02	0.04	0.13	Open

Resultados nos Nós às 20:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.62	20.62	0.00
2	0.02	199.63	20.63	0.00
3	0.02	199.67	20.67	0.00
4	0.02	199.78	11.78	0.00
5	0.02	199.93	10.93	0.00
6	0.02	198.93	14.93	0.00
7	0.02	198.19	13.19	0.00
8	0.02	197.13	24.13	0.00
9	0.02	196.89	20.89	0.00
10	0.02	196.67	18.67	0.00
11	0.02	196.66	27.66	0.00
12	0.02	199.59	37.59	0.00
13	0.02	199.58	28.58	0.00
14	0.02	199.58	15.58	0.00
15	0.02	196.37	8.37	0.00
16	0.02	198.67	15.67	0.00
17	0.02	198.34	14.34	0.00
18	0.02	204.61	22.61	0.00
19	0.02	204.53	17.53	0.00
20	0.02	204.65	15.65	0.00
21	0.02	204.61	16.61	0.00
22a	0.02	196.38	15.38	0.00
22b	0.02	196.36	19.36	0.00
23	0.02	204.50	25.50	0.00
24	0.02	204.50	23.50	0.00
25	0.02	205.22	22.22	0.00
26	0.02	205.40	13.40	0.00
27	0.02	205.52	10.52	0.00
28	0.02	205.66	8.66	0.00
29	0.02	205.91	12.91	0.00
30	0.02	205.28	35.28	0.00
31	0.02	196.46	23.46	0.00
32	0.02	196.42	25.42	0.00
33	0.02	196.43	21.43	0.00
34	0.02	196.42	16.42	0.00
35	0.02	196.40	22.40	0.00
36	0.02	204.46	35.46	0.00
37	0.02	204.48	30.48	0.00
38	0.02	204.46	25.46	0.00
39	0.02	197.71	12.71	0.00
40	0.02	196.97	17.97	0.00
41	0.02	196.79	19.79	0.00
42	0.02	196.46	21.46	0.00
43	0.02	196.58	20.58	0.00
44	0.02	198.49	13.49	0.00
C-01	0.02	205.72	25.72	0.00
C-02	0.02	205.75	24.75	0.00
C-03	0.02	205.73	17.73	0.00
C-04	0.02	205.76	17.76	0.00
C-05	0.02	205.82	9.82	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

C-06	0.02	205.83	9.83	0.00
C-07	0.02	205.86	12.86	0.00
C-08	0.02	205.83	25.83	0.00
C-09	0.02	205.65	11.65	0.00
C-10	0.02	204.68	18.68	0.00
C-11	0.02	204.67	16.67	0.00
C-12	0.02	204.58	22.58	0.00
C-12B	0.02	204.56	22.56	0.00
C-13	0.02	204.62	20.62	0.00
C-14	0.02	204.61	20.61	0.00
C-15	0.02	204.59	22.59	0.00
C-16	0.02	204.52	21.52	0.00
LO-01	0.00	205.75	24.75	0.00
LO-02	0.00	205.75	24.75	0.00
LO-03	0.00	205.75	16.75	0.00
LO-04	0.00	205.76	19.76	0.00
LO-05	0.00	205.82	8.82	0.00
LO-06	0.00	205.83	9.83	0.00
LO-07	0.00	205.88	11.88	0.00
LO-08	0.00	205.91	12.91	0.00
LO-10	0.00	204.69	18.69	0.00
LO-11	0.00	204.67	16.67	0.00
LO-12	0.00	204.64	18.64	0.00
LO-13	0.00	204.62	20.62	0.00
LO-14	0.00	204.61	20.61	0.00
LO-15	0.00	204.61	20.61	0.00
pv-10	0.00	205.82	9.82	0.00
U1	0.00	199.62	20.62	0.00
U2	0.00	199.63	21.63	0.00
U3	0.00	199.67	19.67	0.00
U4	0.00	199.78	12.78	0.00
U5	0.00	199.93	10.93	0.00
U6	0.00	198.93	13.93	0.00
U7	0.00	198.20	12.20	0.00
U8	0.00	197.13	22.13	0.00
U9	0.00	196.89	20.89	0.00
U10	0.00	196.68	17.68	0.00
U11	0.00	196.73	17.73	0.00
U12	0.00	199.59	36.59	0.00
U13	0.00	199.58	26.58	0.00
U14	0.00	199.58	14.58	0.00
U15	0.00	196.38	10.38	0.00
U16	0.00	198.68	15.68	0.00
U17	0.00	198.34	13.34	0.00
U18	0.00	204.61	23.61	0.00
U19	0.00	204.54	17.54	0.00
U20	0.00	204.65	15.65	0.00
U21	0.00	204.61	15.61	0.00
U22a	0.00	196.39	16.39	0.00
U22b	0.00	196.36	17.36	0.00
U23	0.00	204.53	21.53	0.00
U24	0.00	204.50	22.50	0.00
U25	0.00	205.22	21.22	0.00
U26	0.00	205.41	12.41	0.00
U27	0.00	205.52	10.52	0.00
U28	0.00	205.66	8.66	0.00
U29	0.00	205.92	9.92	0.00
U30a	0.00	205.48	11.48	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U30	0.00	205.28	35.28	0.00
U31	0.00	196.46	22.46	0.00
U32	0.00	196.42	23.42	0.00
U33	0.00	196.45	20.45	0.00
U34	0.00	196.49	17.49	0.00
U35	0.00	196.41	21.41	0.00
U36	0.00	204.48	29.48	0.00
U37	0.00	204.50	23.50	0.00
U38	0.00	204.46	25.46	0.00
U39	0.00	197.71	11.71	0.00
U40	0.00	197.00	20.00	0.00
U41	0.00	196.81	19.81	0.00
U42	0.00	196.47	20.47	0.00
U43	0.00	196.58	20.58	0.00
U44	0.00	198.49	13.49	0.00
PV-1	0.00	198.53	13.53	0.00
PV-2	0.00	196.50	17.50	0.00
PV-3	0.00	205.59	9.59	0.00
PV-4	0.00	204.67	15.67	0.00
PV-5	0.00	204.54	20.54	0.00
Det-1	0.00	199.96	9.96	0.00
Det-2	0.00	199.76	15.76	0.00
Det-3	0.00	196.40	29.40	0.00
Det-4	0.00	205.40	20.40	0.00
PV-06	0.00	204.75	19.75	0.00
r-1	-0.58	205.98	9.98	0.00 RNV
RESERVATORIO_02	-0.54	199.98	9.98	0.00 RNV

Resultados nos Trechos às 20:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open
T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open
T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.01	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.14	Open
T125	0.02	0.04	0.14	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.50	Open
T138	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

Resultados nos Nós às 24:00 Horas:

Nó ID	Consumo LPS	Carga Hidráulica m	Pressão m	Qualidade
1	0.02	199.62	20.62	0.00
2	0.02	199.62	20.62	0.00
3	0.02	199.67	20.67	0.00
4	0.02	199.77	11.77	0.00
5	0.02	199.92	10.92	0.00
6	0.02	198.93	14.93	0.00
7	0.02	198.19	13.19	0.00
8	0.02	197.12	24.12	0.00
9	0.02	196.88	20.88	0.00
10	0.02	196.67	18.67	0.00
11	0.02	196.65	27.65	0.00
12	0.02	199.59	37.59	0.00
13	0.02	199.57	28.57	0.00
14	0.02	199.57	15.57	0.00
15	0.02	196.36	8.36	0.00
16	0.02	198.67	15.67	0.00
17	0.02	198.33	14.33	0.00
18	0.02	204.60	22.60	0.00
19	0.02	204.53	17.53	0.00
20	0.02	204.65	15.65	0.00
21	0.02	204.60	16.60	0.00
22a	0.02	196.38	15.38	0.00
22b	0.02	196.35	19.35	0.00
23	0.02	204.50	25.50	0.00
24	0.02	204.50	23.50	0.00
25	0.02	205.21	22.21	0.00
26	0.02	205.40	13.40	0.00
27	0.02	205.51	10.51	0.00
28	0.02	205.66	8.66	0.00
29	0.02	205.90	12.90	0.00
30	0.02	205.28	35.28	0.00
31	0.02	196.45	23.45	0.00
32	0.02	196.42	25.42	0.00
33	0.02	196.43	21.43	0.00
34	0.02	196.41	16.41	0.00
35	0.02	196.40	22.40	0.00
36	0.02	204.45	35.45	0.00
37	0.02	204.48	30.48	0.00
38	0.02	204.45	25.45	0.00
39	0.02	197.70	12.70	0.00
40	0.02	196.96	17.96	0.00
41	0.02	196.79	19.79	0.00
42	0.02	196.46	21.46	0.00
43	0.02	196.57	20.57	0.00
44	0.02	198.48	13.48	0.00
C-01	0.02	205.71	25.71	0.00
C-02	0.02	205.74	24.74	0.00
C-03	0.02	205.73	17.73	0.00
C-04	0.02	205.75	17.75	0.00
C-05	0.02	205.82	9.82	0.00
C-06	0.02	205.82	9.82	0.00
C-07	0.02	205.86	12.86	0.00
C-08	0.02	205.83	25.83	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

C-09	0.02	205.65	11.65	0.00
C-10	0.02	204.67	18.67	0.00
C-11	0.02	204.66	16.66	0.00
C-12	0.02	204.58	22.58	0.00
C-12B	0.02	204.56	22.56	0.00
C-13	0.02	204.61	20.61	0.00
C-14	0.02	204.61	20.61	0.00
C-15	0.02	204.58	22.58	0.00
C-16	0.02	204.51	21.51	0.00
LO-01	0.00	205.75	24.75	0.00
LO-02	0.00	205.75	24.75	0.00
LO-03	0.00	205.75	16.75	0.00
LO-04	0.00	205.76	19.76	0.00
LO-05	0.00	205.82	8.82	0.00
LO-06	0.00	205.83	9.83	0.00
LO-07	0.00	205.88	11.88	0.00
LO-08	0.00	205.91	12.91	0.00
LO-10	0.00	204.69	18.69	0.00
LO-11	0.00	204.67	16.67	0.00
LO-12	0.00	204.63	18.63	0.00
LO-13	0.00	204.62	20.62	0.00
LO-14	0.00	204.61	20.61	0.00
LO-15	0.00	204.60	20.60	0.00
pv-10	0.00	205.81	9.81	0.00
U1	0.00	199.62	20.62	0.00
U2	0.00	199.62	21.62	0.00
U3	0.00	199.67	19.67	0.00
U4	0.00	199.78	12.78	0.00
U5	0.00	199.93	10.93	0.00
U6	0.00	198.93	13.93	0.00
U7	0.00	198.19	12.19	0.00
U8	0.00	197.13	22.13	0.00
U9	0.00	196.88	20.88	0.00
U10	0.00	196.67	17.67	0.00
U11	0.00	196.72	17.72	0.00
U12	0.00	199.59	36.59	0.00
U13	0.00	199.58	26.58	0.00
U14	0.00	199.57	14.57	0.00
U15	0.00	196.38	10.38	0.00
U16	0.00	198.68	15.68	0.00
U17	0.00	198.34	13.34	0.00
U18	0.00	204.61	23.61	0.00
U19	0.00	204.53	17.53	0.00
U20	0.00	204.65	15.65	0.00
U21	0.00	204.61	15.61	0.00
U22a	0.00	196.38	16.38	0.00
U22b	0.00	196.36	17.36	0.00
U23	0.00	204.52	21.52	0.00
U24	0.00	204.50	22.50	0.00
U25	0.00	205.22	21.22	0.00
U26	0.00	205.40	12.40	0.00
U27	0.00	205.51	10.51	0.00
U28	0.00	205.66	8.66	0.00
U29	0.00	205.92	9.92	0.00
U30a	0.00	205.47	11.47	0.00
U30	0.00	205.28	35.28	0.00
U31	0.00	196.46	22.46	0.00
U32	0.00	196.42	23.42	0.00





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

U33	0.00	196.45	20.45	0.00
U34	0.00	196.48	17.48	0.00
U35	0.00	196.40	21.40	0.00
U36	0.00	204.47	29.47	0.00
U37	0.00	204.50	23.50	0.00
U38	0.00	204.45	25.45	0.00
U39	0.00	197.71	11.71	0.00
U40	0.00	197.00	20.00	0.00
U41	0.00	196.81	19.81	0.00
U42	0.00	196.46	20.46	0.00
U43	0.00	196.58	20.58	0.00
U44	0.00	198.49	13.49	0.00
PV-1	0.00	198.52	13.52	0.00
PV-2	0.00	196.49	17.49	0.00
PV-3	0.00	205.58	9.58	0.00
PV-4	0.00	204.67	15.67	0.00
PV-5	0.00	204.54	20.54	0.00
Det-1	0.00	199.95	9.95	0.00
Det-2	0.00	199.75	15.75	0.00
Det-3	0.00	196.39	29.39	0.00
Det-4	0.00	205.39	20.39	0.00
PV-06	0.00	204.74	19.74	0.00
r-1	-0.58	205.97	9.97	0.00 RNV
RESERVATORIO_02	-0.54	199.98	9.98	0.00 RNV

Resultados nos Trechos às 24:00 Horas:

Trecho: ID	Vazão LPS	Velocidade m/s	Perda de Carga m/km	Estado
T2	-0.36	0.18	1.18	Open
T3	-0.38	0.19	1.29	Open
T4	-0.40	0.20	1.41	Open
T5	0.14	0.07	0.22	Open
T6	0.13	0.06	0.17	Open
T7	0.11	0.06	0.13	Open
T8	0.11	0.06	0.13	Open
T9	0.09	0.05	0.09	Open
T10	0.07	0.04	0.06	Open
T11	0.05	0.03	0.04	Open
T12	0.04	0.02	0.02	Open
T13	0.02	0.01	0.00	Open
T14	0.36	0.18	1.18	Open
T15	0.34	0.17	1.07	Open
T16	0.32	0.17	0.97	Open
T17	0.31	0.16	0.87	Open
T18	0.29	0.15	0.78	Open
T19	0.27	0.14	0.69	Open
T20	0.25	0.13	0.61	Open
T21	0.23	0.12	0.53	Open
T22	0.22	0.11	0.46	Open
T23	0.20	0.10	0.39	Open
T24	0.18	0.09	0.33	Open
T25	0.16	0.08	0.27	Open
T26	0.07	0.04	0.06	Open
T27	0.05	0.03	0.04	Open
T28	0.05	0.03	0.04	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T29	0.04	0.02	0.02	Open
T30	0.02	0.04	0.13	Open
T31	0.09	0.05	0.09	Open
T32	0.07	0.04	0.06	Open
T33	0.05	0.03	0.04	Open
T34	0.04	0.02	0.02	Open
T35	0.02	0.04	0.13	Open
T37	-0.38	0.19	1.29	Open
T38	-0.41	0.21	1.53	Open
T39	0.38	0.19	1.29	Open
T40	0.36	0.18	1.18	Open
T41	0.02	0.04	0.13	Open
T42	0.02	0.04	0.13	Open
T43	0.34	0.17	1.07	Open
T44	0.32	0.17	0.97	Open
T46	0.02	0.04	0.13	Open
T47	0.14	0.07	0.22	Open
T48	0.13	0.06	0.17	Open
T49	0.11	0.06	0.13	Open
T50	0.04	0.02	0.02	Open
T51	0.02	0.04	0.13	Open
T52	0.07	0.04	0.06	Open
T53	0.05	0.03	0.04	Open
T54	0.04	0.02	0.02	Open
T55	0.02	0.04	0.13	Open
T56	0.02	0.04	0.13	Open
T57	0.02	0.04	0.13	Open
T58	0.02	0.04	0.13	Open
T59	0.02	0.04	0.13	Open
T60	0.02	0.04	0.13	Open
T61	0.02	0.04	0.13	Open
T62	0.02	0.04	0.13	Open
T63	0.02	0.04	0.13	Open
T64	0.02	0.04	0.13	Open
T65	0.02	0.04	0.13	Open
T66	0.02	0.04	0.13	Open
T67	0.02	0.04	0.13	Open
T68	0.02	0.04	0.13	Open
T69	0.02	0.04	0.13	Open
T70	0.02	0.04	0.13	Open
T71	0.02	0.04	0.13	Open
T72	0.02	0.04	0.13	Open
T73	0.02	0.04	0.13	Open
T74	0.02	0.04	0.13	Open
T75	0.02	0.04	0.13	Open
T76	0.02	0.04	0.13	Open
T77	0.02	0.04	0.13	Open
T78	0.02	0.04	0.13	Open
T79	0.02	0.04	0.13	Open
T80	0.02	0.04	0.13	Open
T81	0.02	0.04	0.13	Open
T82	0.02	0.04	0.13	Open
T83	0.02	0.04	0.13	Open
T84	0.02	0.04	0.13	Open
T85	0.02	0.04	0.13	Open
T86	0.02	0.04	0.13	Open
T87	0.02	0.04	0.13	Open
T88	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

T89	0.02	0.04	0.13	Open
T90	0.02	0.04	0.13	Open
T91	0.02	0.04	0.13	Open
T92	0.02	0.04	0.13	Open
T93	0.02	0.04	0.13	Open
T94	0.02	0.04	0.13	Open
T95	0.02	0.04	0.13	Open
T96	0.02	0.04	0.13	Open
T97	0.02	0.04	0.13	Open
T98	0.02	0.04	0.13	Open
T99	0.02	0.04	0.13	Open
T100	0.02	0.04	0.13	Open
T104	-0.02	0.01	0.01	Open
T105	-0.04	0.02	0.02	Open
T106	-0.05	0.03	0.04	Open
T107	-0.07	0.04	0.06	Open
T108	-0.07	0.04	0.06	Open
T109	-0.09	0.05	0.09	Open
T110	-0.11	0.06	0.13	Open
T111	-0.13	0.06	0.17	Open
T112	-0.14	0.07	0.22	Open
T113	0.31	0.16	0.87	Open
T114	-0.16	0.08	0.27	Open
T115	0.14	0.07	0.22	Open
T116	0.13	0.06	0.17	Open
T117	0.11	0.06	0.13	Open
T118	0.07	0.04	0.06	Open
T119	0.05	0.03	0.04	Open
T120	0.04	0.02	0.02	Open
T121	0.02	0.04	0.13	Open
T122	0.02	0.04	0.13	Open
T123	0.02	0.04	0.13	Open
T124	0.02	0.04	0.14	Open
T125	0.02	0.04	0.14	Open
T126	0.02	0.04	0.13	Open
T127	0.02	0.04	0.13	Open
T128	0.02	0.04	0.13	Open
T129	0.02	0.04	0.13	Open
T130	0.02	0.04	0.13	Open
T131	0.02	0.04	0.13	Open
T132	0.02	0.04	0.13	Open
T133	0.02	0.04	0.13	Open
T134	0.02	0.04	0.13	Open
T135	0.02	0.04	0.13	Open
T136	0.02	0.04	0.13	Open
T137	0.58	0.29	2.82	Open
T01	0.54	0.28	2.50	Open
T138	0.02	0.04	0.13	Open





**GOVERNO DO ESTADO DO RIO GRANDE DO SUL
SECRETARIA DE DESENVOLVIMENTO RURAL**

TABELA QUANTITATIVA DE CONEXÕES

Descrição da Peça	Localização															Total
	Ao longo da Rede	Det-1	PV-2	U15	U33	U14	U29	PV-06	C-15	PV-4	PV-5	U19	U37	PV-10	LO-01	
Tubo PVC DN25 (m)	9517															9517
Tubo PVC DN50 (m)	19105															19105
Curva 90° DN50		4					4			1				1		6
Flange DN50		2					2									2
Registro gaveta DN50		1	1				1									3
Tê DN50		1	1				1	1			1					5
CAP 50						1			1							2
Colar de Tomada DN50	57															57
Redução DN50/DN25				1	1							1	1		1	5
Ligações Domiciliares	62															62





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Nome do documento: Memorial_de_Calculo_Sepe.pdf

Documento assinado por

Fernando Alves Cantini Cardozo
Eduardo Ubel Oslaj

Órgão/Grupo/Matrícula

SDR / DFC / 459195001
SDR / DFC / 422809001

Data

22/11/2023 10:15:53
21/12/2023 16:21:34

