

**TRANSPORTADORA  
DE GAS DEL NORTE S.A.**

Buenos Aires, 30 de noviembre de 2016

Ref.: RTI-PIN – Solicitud de Plan de  
Inversiones.  
Nota ENRG/GDyE/GT/GAL/I N° 7427/16  
Nota TGN-1057-2016-GECOM  
Código: 10002\_20160191687372803

Sr. Interventor del Ente  
Nacional Regulador del Gas  
Sr. David José Tezanos González  
S \_\_\_\_\_ / \_\_\_\_\_ D

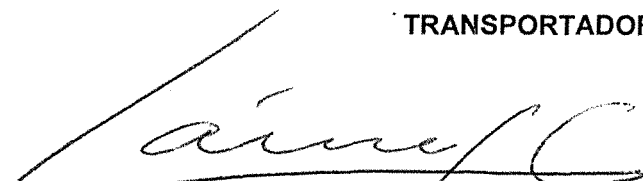
Señor Interventor:

Nos dirigimos a Usted en el marco del proceso de Revisión Tarifaria Integral (RTI), a los efectos de adjuntar las corridas hidráulicas correspondientes a los escenarios de ampliación de capacidad en el Gasoducto Norte y Centro Oeste descriptos en la nota de referencia enviada el día 29/11/2016.

Quedamos a su disposición por cualquier aclaración al respecto.

Sin otro particular, lo saludamos atentamente.

TRANSPORTADORA DE GAS DEL NORTE S.A.

  
Guillermo Cánovas  
Apoderado

  
Sebastián Mirkin  
APODERADO

**Adjuntos:**

- Anexo I : Corridas hidráulicas Gto Norte, base y Etapa 1, 2 y 3
- Anexo II : Corridas hidráulicas Gto Centro Oeste Etapa 1, 2, 3 y 4



ENARGAS  
ENTIDAD REGULADORA DEL GAS



Actuación  
39476 / 16

16 NOV 30 15:37

TGN-1060-2016-GECOM

**MILAZZOTTO Sofía TGN**

---

**De:** Sari Enargas TGN  
**Enviado el:** miércoles, 30 de noviembre de 2016 11:19 a.m.  
**Para:** MARKMAN Johana TGN; PASCUALE Jorge TGN; MONTALDO José TGN; MIRKIN Sebastian TGN; MILAZZOTTO Sofía TGN; GRAVINO Magdalena TGN; KOVES Victoria Teresa TGN  
**Asunto:** RV: SARI - RECEPCION DE ARCHIVOS PERIODO 201601 - 10002\_TGN

---

**De:** Sistema Automatizado de Remisi&#243;n Inform&#225;tica  
**Enviado:** miércoles, 30 de noviembre de 2016 11:19:14 a.m. (UTC-03:00) Buenos Aires  
**Para:** CARDOZO Carina TGN; POZZETTA Daniel TGN; GIOIA Maria Lujan TGN; URRUTIA Alejandro TGN; Sari Enargas TGN; MANCUSO Griselda TGN  
**Asunto:** SARI - RECEPCION DE ARCHIVOS PERIODO 201601 - 10002\_TGN

\*\*\*\*\*  
\*\* [SMM001]  
\*\* ESTE ES UN CORREO GENERADO POR EL SISTEMA AUTOMATIZADO DE  
\*\* REMISION INFORMÁTICA - SARI - PARA SU INFORMACIÓN SOLAMENTE,  
\*\* NO RESPONDER A ESTE MAIL .  
\*\*\*\*\*

Entidad: Transportadora de Gas del Norte S.A.  
Periodo: 201601  
Remitió: [SARI.ENARGAS@TGN.COM.AR](mailto:SARI.ENARGAS@TGN.COM.AR)  
Recibo: 10002\_20160191687372803  
Enargas le confirma la recepción de los siguientes archivos:  
10002\_2\_RTI-PIN\_2016-01\_20161130.rar

\*\*\*\*\*



# RTI-PIN- GASODUCTO NORTE HITO 5200

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

## TITLE CARDS

SYSTEM: TGN  
SEASON: GTO NORTE Y TRAMOS FINALES  
FORECAST:...5200TFhs

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. Norte pod. calorífico 9250 Kcal/m3

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	TARTAGAL	1101	1	-13.0	6806.
3	AYE TARTAG	1102	1	.0	6782.
3	VESPUCIO	1103	1	-3.0	6735.
3	EMBARCAC	1104	1	-2.0	6132.
3	PICHANAL	1105	1	-73.0	5897.
3	NORANDINO	1106	1	-2624.0	8997.
3	URUNDEL	1107	1	-2.0	5963.
3	PREDILIANA	1108	1	-605.0	5299.
3	MIRAFLORES	1109	1	-386.0	4702.
3	TORZALITO	9187	1	.0	5731.
3	LAVAYEN	1110	1	-4.0	6208.
3	P.VIEJO	1111	1	.0	6134.
3	TORZALIT*	1112	1	-2182.0	5664.
3	TERMOAND	1113	1	-1413.0	4438.
3	CUCHUMA	1114	1	.0	4876.
3	TIMBO	7090	1	.0	5775.
3	ALDERETE	7094	1	.0	5739.
3	TUCUMAN N	7096	1	.0	5719.
3	PIEDRAS	1115	1	.0	6055.
3	METAN	1116	1	-16.0	5875.
3	FRONTERA	1117	1	-6.0	5412.
3	TRAPANI	1118	1	-76.0	3547.

3	TIMBO	1119	1	.0	3449.
3	ALDERETE	1120	1	-3.0	3175.
3	TUCUMAN N	1121	1	-501.0	3084.
3	BRACHOS	1122	1	-2331.0	3047.
3	TUCUMAN S	1123	1	-268.0	5425.
3	TUC M	1124	1	-2339.0	5147.
3	ESTERO	1125	1	-226.0	4724.
3	LA PAZ	7136	1	.0	5531.
3	LAVALLE	1126	1	.0	5683.
3	LOMA NEGRA	1127	1	.0	5410.
3	FRIAS	1128	1	-13.0	5235.
3	LA PAZ	1129	1	.0	4684.
3	LA RIOJA	2101	1	-192.0	5450.
3	YPF QUILIN	2102	1	-3.0	4526.
3	QUILINO	2103	1	.0	4458.
3	DEAN FUNES	2104	1	-36.0	5831.
3	TOTORAL	2105	1	-31.0	5589.
3	JESUS MARI	2106	1	-66.0	5312.
3	END LOOP	2197	1	.0	4949.
3	YPF MONTE	2107	1	.0	4923.
3	CORDOBA N	2108	1	-490.0	4921.
3	MONTECRIST	2109	1	-13.0	4890.
3	CORDOBA S	2110	1	-697.0	4761.
3	TOLEDO	2111	1	-1115.0	5703.
3	R. SEGUNDO	2112	1	-22.0	5634.
3	PILAR EPEC	2113	1	-1562.0	5612.
3	PILAR-ARRY	2114	1	-302.0	5611.

1  
PCASIM VERSION 2 (1990)

PAGE 11

TYPE	NAME	NODE	OTHER DEMAND CUSTID	FLOW	PSALE
3	PILAR P	2115	1	-19.0	5611.
3	LAG LARGA	2116	1	-8.0	5590.
3	ONCATIVO	2117	1	-36.0	5544.
3	OLIVA	2118	1	-474.0	5279.
3	HPTL VIDA	2119	1	.0	5216.
3	JAMES CRK	2120	1	-10.0	4855.
3	TIO PUJIO	2121	1	-17.0	4454.
3	GRAL CE	2122	1	-150.0	5430.
3	VIL. MARIA	2123	1	-49.0	5429.
3	LAS PLAYAS	2124	1	-162.0	5411.
3	BELL VILLE	2125	1	-74.0	5304.
3	SAN MARCOS	2126	1	-6.0	4916.
3	LEONES	2127	1	-18.0	4523.
3	MARCOS J.	2128	1	-46.0	5422.
3	GRAL RO	2129	1	-3.0	5393.
3	ARMSTRONG	3101	1	.0	5302.
3	LAS PAREJA	3102	1	.0	5196.
3	CANADA DE	3103	1	.0	4906.
3	CORREA	3104	1	.0	4620.
3	CARCARANA	3105	1	.0	4410.
3	SAN JR 24	3305	1	.0	5502.
3	SAN JR 30	7102	1	.0	5596.
3	ROLDAN 24	3306	1	.0	4933.
3	ROS.NOR 24	3307	1	-1264.0	4929.
3	ROS.NOR 30	7104	1	.0	5506.
3	ROS.SUR*24	3308	1	-1006.0	4814.
3	ARROYO	3309	1	-283.0	4662.
3	CONST. 24	3310	1	-550.0	4439.
3	S NICOL 24	3311	1	-1457.0	4258.
3	BERGAM 24	3312	1	-452.0	4257.
3	AES PAR.22	3313	1	.0	4231.
3	HOUSTON 22	3314	1	-1374.0	4202.
3	RAMALLO 22	3315	1	-103.0	4180.
3	VBS 73 SC	7573	1	.0	5086.
3	RAMALLO*30	7110	1	-1950.0	5170.
3	ARREC. 22	3316	1	-226.0	4033.
3	SAN PED 22	3317	1	-234.0	4033.
3	ARREC. 30	7112	1	.0	5041.
3	BARAZZ	3318	1	-157.0	3999.
3	TIMBUES	3417	1	.0	5584.
3	ALDAO	3418	1	-1884.0	5480.
3	OLIVEROS	3419	1	-7.0	5477.
3	MACIEL	3420	1	-5.0	5470.
3	BARRANCAS	3421	1	-4.0	5461.

3	CT VO	7596	1	.0	5616.
3	GALVEZ	3422	1	-22.0	5429.
3	CORONDA	3423	1	-9.0	5358.
3	CTB Lopez*	3500	1	-1810.0	5322.
3	CARLOS CTO	3424	1	-21.0	5312.

1

PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	SAUCE VIEJ	3425	1	-33.0	5296.
3	SANTO TOME	3426	1	-57.0	5292.
3	REG.CENTRO	3427	1	-352.0	5283.
3	SANTA FE	3428	1	-402.0	5277.
3	ALD.BRAS.	3429	1	-3624.0	5244.
3	BARADERO30	7113	1	.0	4999.
3	WILLMOR	5301	1	.0	3906.
3	DEL NORTE	5302	1	.0	3905.
3	GROMANTI	5303	1	.0	3904.
3	INDIO CUA	5304	1	.0	3902.
3	MONTES OCA	5305	1	.0	3901.
3	CARTOCOR	5306	1	.0	3895.
3	OPEN DOOR	5307	1	.0	3894.
3	RODRIGUEZ	5308	1	-2269.0	3886.
3	SARMIENTO	5309	1	-47.0	3991.
3	ARECO	5310	1	-46.0	3936.
3	S A GILES	5311	1	-43.0	3936.
3	SOLIS 22	5312	1	-754.0	3912.
3	CMP. SENOR	5313	1	-1889.0	3904.
3	CARDALES	5314	1	-22.0	3906.
3	FATIMA	5315	1	-243.0	3885.
3	VILLA ROSA	5316	1	-604.0	3836.
3	DEL VISO	5317	1	-107.0	3823.
3	BTB 1	5318	1	-110.0	3808.
3	PQE.IND.	5319	1	-8.0	3802.
3	PACHECO *	5320	1	-2571.0	3793.

----- SUPPLY SUMMARY -----				
NAME	NODE	CUSTID	FLOW E3M3/D	PSUPPLY KPA(G)
CAMPO DUR	8200	1	28664.00	7200.
YA YACUY	8201	1	.00	7005.
YA CUCHARA	8202	1	.00	6821.
YA LOMITAS	8203	1	.00	6812.
YA TRANQ	8204	1	.00	6696.
YA RAMOS	8205	1	.00	6658.
YA c_norte	8206	1	.00	6448.
YA FMORADO	8207	1	.00	6050.
CAIMANCITO	8502	1	18.00	4952.



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW M3/D E3.	FUEL M3/D E3.	KWA KW	KWR KW	KWX KW	AM3/S M3/S	HEAD KJ/KG	EFF	TYPE	TA DEG C	TS DEG C	TD DEG C	
33	PICHANAL S	5599.	6250.	1.114	20061.0	31.1	8576.	3101.	5475.	3.73	13.38	.75	2	35.0	21.5	31.0	.00
33	PICHANAL S	5599.	7080.	1.260	8453.5	29.5	4498.	2831.	1667.	1.57	29.00	.75	2	35.0	21.5	41.9	.00
34	PICHANAL D	6150.	9050.	1.464	2624.0	22.0	3944.	1531.	2413.	.46	50.55	.75	2	35.0	31.0	65.8	.94
63	MIRA SUC	4600.	6551.	1.416	16374.7	65.6	13691.	8003.	5688.	3.78	45.07	.80	1	25.4	21.2	50.8	.20
84	LUMB SUC	4302.	6571.	1.516	11976.7	64.5	9131.	7090.	2041.	2.96	54.61	.80	1	24.9	20.4	55.9	1.49
84	LUMB SUC	4302.	6571.	1.516	9141.5	46.5	6076.	5764.	312.	2.26	54.60	.75	2	25.0	20.4	57.7	1.48
93	CANDELAR S	4136.	6130.	1.471	10277.4	48.1	6057.	6039.	18.	2.66	50.89	.75	2	25.0	21.3	55.9	1.27
135	TUCUM SUC	3024.	5730.	1.867	7798.5	61.1	11409.	7302.	4107.	2.81	86.55	.80	1	26.5	21.0	74.9	4.07
161	LAVALLE S	4092.	5790.	1.405	7805.6	37.3	7640.	3769.	3871.	2.04	44.57	.80	1	27.7	21.1	50.0	.00
161	LAVALLE S	4092.	5840.	1.417	7364.5	35.6	4921.	3889.	1032.	1.93	45.72	.75	2	25.0	21.1	52.2	.32
182	RECREO SUC	4127.	5500.	1.325	7746.9	45.7	8060.	3277.	4783.	2.01	36.62	.75	2	27.7	21.5	46.5	.00
194	DEAN F SUC	4180.	5900.	1.402	7218.2	34.9	7457.	3456.	4001.	1.85	44.20	.80	1	25.2	21.0	49.8	.00
194	DEAN F SUC	4180.	6120.	1.454	7625.1	38.1	4786.	4325.	461.	1.95	49.12	.75	2	25.0	21.0	54.5	.71
216	FERREY SUC	4711.	5801.	1.227	5868.8	16.4	4564.	1660.	2904.	1.32	26.11	.80	1	25.2	22.0	39.2	.00
234	TIO PUJIOS	4315.	5500.	1.268	9895.6	33.3	6470.	3484.	2986.	2.43	30.48	.75	2	25.0	20.1	41.1	.00
247	LEONES SC	4277.	5500.	1.279	9403.6	33.0	6548.	3442.	3106.	2.33	31.69	.75	2	25.0	20.5	42.3	.00
257	SAN J.N SC	4106.	5651.	1.367	9316.1	38.5	6591.	4379.	2212.	2.42	40.70	.75	2	25.0	20.4	48.2	.00

+









Table with columns for station name, node, type, and various numerical values. Includes entries like YPF MONTE, CORDOBA N, MONTECRIST, etc.

NOVACORE INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Main data table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries like GRAL CE, VIL. MARIA, LAS PLAYAS, etc.

NOVACORE INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entry CARLOS CTO.



# RTI-PIN- GASODUCTO NORTE ETAPA 1

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

## TITLE CARDS

SYSTEM: TGN  
SEASON: GTO NORTE Y TRAMOS FINALES (ALDAO STA FE)  
FORECAST:...6200RTI

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. Norte pod. calorífico 9250 Kcal/m<sup>3</sup>

DESVIO ARIJON 1.000

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	TARTAGAL	1101	1	-13.0	6776.
3	AYE TARTAG	1102	1	.0	6750.
3	VESPUCIO	1103	1	-3.0	6698.
3	EMBARCAC	1104	1	-2.0	6033.
3	PICHANAL	1105	1	-73.0	5777.
3	NORANDINO	1106	1	-2624.0	8997.
3	URUNDEL	1107	1	-2.0	5930.
3	PREDILLIANA	1108	1	-605.0	5163.
3	MIRAFLORES	1109	1	-386.0	4481.
3	TORZALITO	9187	1	.0	5971.
3	LAVAYEN	1110	1	-4.0	6331.
3	P.VIEJO	1111	1	.0	6275.
3	TORZALIT*	1112	1	-2182.0	5893.
3	TERMOAND	1113	1	-1413.0	4526.
3	CUCHUMA	1114	1	.0	5046.
3	TIMBO	7090	1	.0	5778.
3	ALDERETE	7094	1	.0	5740.
3	TUCUMAN N	7096	1	.0	5720.
3	PIEDRAS	1115	1	.0	6343.
3	METAN	1116	1	-16.0	6292.
3	FRONTERA	1117	1	-6.0	5778.
3	TRAPANI	1118	1	-76.0	3635.
3	TIMBO	1119	1	.0	3517.

3	ALDERETE	1120	1	-3.0	3186.
3	TUCUMAN N	1121	1	-501.0	3076.
3	BRACHOS	1122	1	-2331.0	3038.
3	TUCUMAN S	1123	1	-268.0	5502.
3	TUC M (*)	1124	1	-2339.0	5444.
3	ESTERO	1125	1	-226.0	4946.
3	LA PAZ	7136	1	.0	5531.
3	LAVALLE	1126	1	.0	5672.
3	LOMA NEGRA	1127	1	.0	5309.
3	FRIAS	1128	1	-13.0	5070.
3	LA PAZ	1129	1	.0	4312.
3	LA RIOJA *	2101	1	-192.0	5450.
3	YPF QUILIN	2102	1	-3.0	4513.
3	QUILINO	2103	1	.0	4439.
3	DEAN FUNES	2104	1	-36.0	5826.
3	TOTORAL	2105	1	-31.0	5502.
3	JESUS MARI	2106	1	-66.0	5103.
3	END LOOP	2197	1	.0	4584.
3	YPF MONTE	2107	1	.0	4547.
3	CORDOBA N	2108	1	-490.0	4543.
3	MONTECRIST	2109	1	-13.0	4498.
3	CORDOBA S	2110	1	-697.0	4308.
3	TOLEDO	2111	1	-1115.0	5694.
3	R. SEGUNDO	2112	1	-22.0	5610.
3	PILAR EPEC	2113	1	-1562.0	5583.
3	PILAR-ARRY	2114	1	-302.0	5581.

1

PAGE 11

PCASIM VERSION 2 (1990)

TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	PILAR P(*)	2115	1	-19.0	5581.
3	LAG LARGA	2116	1	-8.0	5553.
3	ONCATIVO	2117	1	-36.0	5495.
3	OLIVA (*)	2118	1	-474.0	5441.
3	HPTL VIDA*	2119	1	.0	5432.
3	JAMES CRK	2120	1	-10.0	5062.
3	TIO PUJIO	2121	1	-17.0	4592.
3	GRAL CE	2122	1	-150.0	5424.
3	VIL. MARIA	2123	1	-49.0	5424.
3	LAS PLAYAS	2124	1	-162.0	5400.
3	BELL VILLE	2125	1	-74.0	5263.
3	SAN MARCOS	2126	1	-6.0	4973.
3	LEONES	2127	1	-18.0	4493.
3	MARCOS J.	2128	1	-46.0	5415.
3	GRAL RO(*)	2129	1	-3.0	5375.
3	ARMSTRONG	3101	1	.0	5268.
3	LAS PAREJA	3102	1	.0	5255.
3	CANADA DE	3103	1	.0	5128.
3	CORREA	3104	1	.0	4789.
3	CARCARANA	3105	1	.0	4539.
3	SAN JR 24	3305	1	.0	5502.
3	SAN JR 30	7102	1	.0	5596.
3	ROLDAN 24	3306	1	.0	4936.
3	ROS.NOR 24	3307	1	-1264.0	4932.
3	ROS.NOR 30	7104	1	.0	5505.
3	ROS.SUR*24	3308	1	-1006.0	4817.
3	ARROYO	3309	1	-283.0	4666.
3	CONST. 24*	3310	1	-550.0	4443.
3	S NICOL 24	3311	1	-1457.0	4262.
3	PERGAM 24	3312	1	-452.0	4260.
3	AES PAR.22	3313	1	.0	4234.
3	HOUSTON 22	3314	1	-1374.0	4205.
3	RAMALLO 22	3315	1	-103.0	4183.
3	VBS 73 SC	7573	1	.0	5085.
3	RAMALLO*30	7110	1	-1950.0	5169.
3	ARREC. 22	3316	1	-226.0	4034.
3	SAN PED 22	3317	1	-234.0	4034.
3	ARREC. 30	7112	1	.0	5041.
3	BARA22	3318	1	-157.0	4000.
3	TIMBUES	3417	1	.0	5608.
3	ALDAO	3418	1	-1884.0	5500.
3	OLIVEROS	3419	1	-7.0	5496.
3	MACIEL	3420	1	-5.0	5488.
3	BARRANCAS	3421	1	-4.0	5477.
3	CT VO	7596	1	.0	5647.

3	GALVEZ	3422	1	-22.0	5435.
3	CORONDA	3423	1	-9.0	5340.
3	D.ARIJON	7501	1	-1005.0	5292.
3	CTB Lopez*	3500	1	-1810.0	5292.

1  
PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5282.
3	SAUCE VIEJ	3425	1	-33.0	5265.
3	SANTO TOME	3426	1	-57.0	5261.
3	REG.CENTRO	3427	1	-352.0	5252.
3	SANTA FE	3428	1	-402.0	5246.
3	ALD.BRAS.	3429	1	-3624.0	5213.
3	BARADERO30	7113	1	.0	4998.
3	WILLMOR **	5301	1	.0	3906.
3	DEL NORTE	5302	1	.0	3905.
3	GROMANTI	5303	1	.0	3904.
3	INDIO CUA	5304	1	.0	3902.
3	MONTES OCA	5305	1	.0	3901.
3	CARTOCOR	5306	1	.0	3895.
3	OPEN DOOR	5307	1	.0	3893.
3	RODRIGUEZ*	5308	1	-2269.0	3886.
3	SARMIENTO	5309	1	-47.0	3992.
3	ARECO	5310	1	-46.0	3937.
3	S A GILES	5311	1	-43.0	3937.
3	SOLIS 22	5312	1	-754.0	3912.
3	CMP. SENOR	5313	1	-1889.0	3904.
3	CARDALES	5314	1	-22.0	3906.
3	FATIMA	5315	1	-243.0	3884.
3	VILLA ROSA	5316	1	-604.0	3836.
3	DEL VISO	5317	1	-107.0	3822.
3	BTB 1	5318	1	-110.0	3807.
3	PQE.IND.	5319	1	-8.0	3801.
3	PACHECO	5320	1	-2571.0	3792.

----- SUPPLY SUMMARY -----				
NAME	NODE	CUSTID	FLOW E3M3/D	PSUPPLY KPA (G)
CAMPO DUR	8200	1	29708.00	7200.
YA YACUY	8201	1	.00	6992.
YA CUCHARA	8202	1	.00	6792.
YA LOMITAS	8203	1	.00	6781.
YA TRANQ	8204	1	.00	6654.
YA RAMOS	8205	1	.00	6611.
YA c_norte	8206	1	.00	6384.
YA FMORADO	8207	1	.00	6033.
CAIMANCITO	8502	1	18.00	4952.



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW M3/D E3.	FUEL M3/D E3.	KWA KW	KWR KW	KWX KW	AM3/S M3/S	HEAD KJ/KG	EFF	TYPE	TA DEG C	TS DEG C	TD DEG C	
33	PICHANAL S	5452.	6250.	1.144	21415.5	37.0	8576.	4127.	4449.	4.10	16.68	.75	2	35.0	21.3	33.1	.00
33	PICHANAL S	5452.	7100.	1.297	8134.8	30.9	4498.	3081.	1417.	1.56	32.79	.75	2	35.0	21.3	44.3	.00
34	PICHANAL D	6150.	9050.	1.464	2624.0	22.1	3944.	1547.	2397.	.47	51.07	.75	2	35.0	33.1	68.0	1.07
63	MIRA SUC	4370.	6601.	1.500	17714.9	79.9	13691.	10210.	3481.	4.32	53.16	.80	1	25.4	21.0	55.6	2.09
85	LUMB SUC	4423.	6571.	1.476	12656.5	63.5	9131.	6954.	2177.	3.04	50.68	.80	1	24.9	20.2	53.3	.86
85	LUMB SUC	4423.	6571.	1.475	9485.4	45.2	6076.	5550.	526.	2.27	50.67	.75	2	25.0	20.2	54.9	.98
95	CANDELAR S	4956.	6130.	1.233	10432.8	31.6	6057.	3193.	2864.	2.22	26.49	.75	2	25.0	21.3	39.7	.00
137	TUCUM SUC	3015.	5730.	1.873	8678.0	66.6	11409.	8145.	3264.	3.13	86.75	.80	1	26.5	20.3	74.3	4.43
163	LAVALLE S	4265.	5790.	1.350	8833.5	36.9	7640.	3723.	3917.	2.21	38.90	.80	1	27.7	20.9	46.2	.00
163	LAVALLE S	4265.	5840.	1.361	7374.5	32.8	4921.	3411.	1510.	1.84	40.04	.75	2	25.0	20.9	48.3	.00
184	RECREO SUC	3529.	5500.	1.543	8759.5	61.0	8060.	5865.	2195.	2.68	57.99	.75	2	27.7	20.4	59.3	1.69
196	DEAN F SUC	4137.	5900.	1.417	8235.5	39.5	7457.	4066.	3391.	2.13	45.57	.80	1	25.2	20.9	50.4	.04
196	DEAN F SUC	4137.	6120.	1.469	7625.1	38.8	4786.	4447.	339.	1.97	50.50	.75	2	25.0	20.9	55.2	.83
218	FERREY SUC	4258.	5801.	1.354	6877.9	24.6	4564.	2939.	1625.	1.72	39.44	.80	1	25.2	21.4	47.1	.00
236	TIO PUJIOS	4438.	5500.	1.234	10905.4	32.7	6470.	3379.	3091.	2.60	26.82	.75	2	25.0	20.3	38.8	.00
249	LEONES SC	4200.	5500.	1.302	10409.6	36.8	6548.	4092.	2456.	2.63	34.03	.75	2	25.0	20.1	43.5	.00
260	SAN J.N SC	4185.	5651.	1.342	10321.2	39.4	6591.	4540.	2051.	2.62	38.08	.75	2	25.0	20.2	46.3	.00

+









Table with columns: CODE, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes detailed system description for NOVACORP INTERNATIONAL CONSULTING LTD. and output part 3.

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Main data table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for various nodes like PILAR-ARRY, LAG LARGA, ONCATIVO, etc.

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for SAN J.C.W., SAN J.C.W., SAN J.N DS, etc.

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for SAN J.C.W., SAN J.C.W., SAN J.N DS, etc.



# RTI-PIN- GASODUCTO NORTE ETAPA 2

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

TITLE CARDS  
-----

SYSTEM: TGN  
SEASON: GTO NORTE Y TRAMOS FINALES  
FORECAST:...7200RTI

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. Norte pod. calorifico 9250 Kcal/m3

DESVIO ARIJON            2.000

Updated on: 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	TARTAGAL	1101	1	-13.0	6745.
3	AYE TARTAG	1102	1	.0	6717.
3	VESPUCIO	1103	1	-3.0	6661.
3	EMBARCAC	1104	1	-2.0	5935.
3	PICHANAL	1105	1	-73.0	5656.
3	NORANDINO	1106	1	-2624.0	8997.
3	URUNDEL	1107	1	-2.0	5940.
3	PREDILIANA	1108	1	-605.0	5209.
3	MIRAFLORES	1109	1	-386.0	4561.
3	TORZALITO	9187	1	.0	5899.
3	LAVAYEN	1110	1	-4.0	6283.
3	P.VIEJO	1111	1	.0	6227.
3	TORZALIT*	1112	1	-2182.0	5881.
3	TERMOAND	1113	1	-1413.0	4457.
3	CUCHUMA	1114	1	.0	5021.
3	TIMBO	7090	1	.0	5815.
3	ALDERETE	7094	1	.0	5740.
3	TUCUMAN N	7096	1	.0	5710.
3	PIEDRAS	1115	1	.0	6277.
3	METAN	1116	1	-16.0	6219.
3	FRONTERA	1117	1	-6.0	5795.
3	TRAPANI	1118	1	-76.0	4157.
3	TIMBO	1119	1	.0	4078.

3	ALDERETE	1120	1	-3.0	3861.
3	TUCUMAN N	1121	1	-501.0	3787.
3	BRACHOS	1122	1	-2331.0	3761.
3	TUCUMAN S	1123	1	-268.0	5423.
3	TUC M (*)	1124	1	-2339.0	5361.
3	ESTERO	1125	1	-226.0	5026.
3	LA PAZ	7136	1	.0	5631.
3	LAVALLE	1126	1	.0	5791.
3	LOMA NEGRA	1127	1	.0	5505.
3	FRIAS	1128	1	-13.0	5319.
3	LA PAZ	1129	1	.0	4737.
3	LA RIOJA *	2101	1	-192.0	5750.
3	YPF QUILIN	2102	1	-3.0	4566.
3	QUILINO	2103	1	.0	4440.
3	DEAN FUNES	2104	1	-36.0	5828.
3	TOTAL	2105	1	-31.0	5543.
3	JESUS MARI	2106	1	-66.0	5200.
3	END LOOP	2197	1	.0	4756.
3	YPF MONTE	2107	1	.0	4724.
3	CORDOBA N	2108	1	-490.0	4721.
3	MONTECRIST	2109	1	-13.0	4683.
3	CORDOBA S	2110	1	-697.0	4523.
3	TOLEDO	2111	1	-1115.0	5637.
3	R. SEGUNDO	2112	1	-22.0	5537.
3	PILAR EPEC	2113	1	-1562.0	5505.
3	PILAR-ARRY	2114	1	-302.0	5503.

1

PAGE 11

PCASIM VERSION 2 (1990)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	PILAR P(*)	2115	1	-19.0	5503.
3	LAG LARGA	2116	1	-8.0	5467.
3	ONCATIVO	2117	1	-36.0	5396.
3	OLIVA (*)	2118	1	-474.0	5330.
3	HPTL VIDA*	2119	1	.0	5317.
3	JAMES CRK	2120	1	-10.0	5266.
3	TIO PUJIO	2121	1	-17.0	4745.
3	GRAL CE	2122	1	-150.0	5419.
3	VIL. MARIA	2123	1	-49.0	5418.
3	LAS PLAYAS	2124	1	-162.0	5389.
3	BELL VILLE	2125	1	-74.0	5219.
3	SAN MARCOS	2126	1	-6.0	5090.
3	LEONES	2127	1	-18.0	4521.
3	MARCOS J.	2128	1	-46.0	5408.
3	GRAL RO(*)	2129	1	-3.0	5357.
3	ARMSTRONG	3101	1	.0	5229.
3	LAS PAREJA	3102	1	.0	5213.
3	CANADA DE	3103	1	.0	5159.
3	CORREA	3104	1	.0	5075.
3	CARCARANA	3105	1	.0	4790.
3	SAN JR 24	3305	1	.0	5503.
3	SAN JR 30	7102	1	.0	5596.
3	ROLDAN 24	3306	1	.0	4943.
3	ROS.NOR 24	3307	1	-1264.0	4939.
3	ROS.NOR 30	7104	1	.0	5506.
3	ROS.SUR*24	3308	1	-1006.0	4825.
3	ARROYO	3309	1	-283.0	4673.
3	CONST. 24*	3310	1	-550.0	4450.
3	S NICOL 24	3311	1	-1457.0	4268.
3	PERGAM 24	3312	1	-452.0	4267.
3	AES PAR.22	3313	1	.0	4240.
3	HOUSTON 22	3314	1	-1374.0	4211.
3	RAMALLO 22	3315	1	-103.0	4188.
3	VBS 73 SC	7573	1	.0	5086.
3	RAMALLO*30	7110	1	-1950.0	5170.
3	ARREC. 22	3316	1	-226.0	4038.
3	SAN PED 22	3317	1	-234.0	4037.
3	ARREC. 30	7112	1	.0	5042.
3	BARA22	3318	1	-157.0	4002.
3	TIMBUES	3417	1	.0	5594.
3	ALDAO	3418	1	-1884.0	5523.
3	OLIVEROS	3419	1	-7.0	5523.
3	MACIEL	3420	1	-5.0	5522.
3	BARRANCAS	3421	1	-4.0	5521.
3	CT VO	7596	1	.0	5631.

3	GALVEZ	3422	1	-22.0	5481.
3	CORONDA	3423	1	-9.0	5359.
3	D.ARIJON	7501	1	-2011.0	5297.
3	CTB Lopez*	3500	1	-1810.0	5297.

1

PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5287.
3	SAUCE VIEJ	3425	1	-33.0	5271.
3	SANTO TOME	3426	1	-57.0	5266.
3	REG.CENTRO	3427	1	-352.0	5257.
3	SANTA FE	3428	1	-402.0	5252.
3	ALD.BRAS.	3429	1	-3624.0	5218.
3	BARADERO30	7113	1	.0	5000.
3	WILLMOR **	5301	1	.0	3906.
3	DEL NORTE	5302	1	.0	3905.
3	GROMANTI	5303	1	.0	3904.
3	INDIO CUA	5304	1	.0	3902.
3	MONTES OCA	5305	1	.0	3901.
3	CARTOCOR	5306	1	.0	3895.
3	OPEN DOOR	5307	1	.0	3893.
3	RODRIGUEZ*	5308	1	-2269.0	3886.
3	SARMIENTO	5309	1	-47.0	3994.
3	ARECO	5310	1	-46.0	3938.
3	S A GILES	5311	1	-43.0	3938.
3	SOLIS 22	5312	1	-754.0	3912.
3	CMP. SENOR	5313	1	-1889.0	3905.
3	CARDALES	5314	1	-22.0	3906.
3	FATIMA	5315	1	-243.0	3884.
3	VILLA ROSA	5316	1	-604.0	3835.
3	DEL VISO	5317	1	-107.0	3822.
3	BTB 1	5318	1	-110.0	3807.
3	PQE.IND.	5319	1	-8.0	3801.
3	PACHECO	5320	1	-2571.0	3792.

----- SUPPLY SUMMARY -----					
NAME	NODE	CUSTID	FLOW	PSUPPLY	
			E3M3/D	KPA (G)	
CAMPO DUR	8200	1	30700.00	7200.	
YA YACUY	8201	1	.00	6978.	
YA CUCHARA	8202	1	.00	6762.	
YA LOMITAS	8203	1	.00	6751.	
YA TRANQ	8204	1	.00	6612.	
YA RAMOS	8205	1	.00	6565.	
YA c_norte	8206	1	.00	6320.	
YA FMORADO	8207	1	.00	6039.	
CAIMANCITO	8502	1	18.00	4952.	



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS	PD	RATIO	FLOW	FUEL	KWA	KWR	KWX	AM3/S	HEAD	EFF	TYPE	TA	TS	TD	
		KPAG	KPAG		M3/D	M3/D	KW	KW	KW	M3/S	KJ/KG			DEG C	DEG C	DEG C	
					E3.	E3.											
33	PICHANAL S	5304.	6250.	1.175	20897.8	41.3	8576.	4865.	3711.	4.12	20.15	.75	2	35.0	21.1	35.3	.00
33	PICHANAL S	5304.	7200.	1.351	9634.4	37.7	4498.	4252.	246.	1.90	38.21	.75	2	35.0	21.1	47.8	.00
34	PICHANAL D	6150.	9050.	1.464	2624.0	22.2	3944.	1563.	2381.	.47	51.61	.75	2	35.0	35.3	70.4	1.21
63	MIRA SUC	4454.	6551.	1.461	17203.3	73.6	13691.	9237.	4454.	4.11	49.52	.80	1	25.4	21.2	53.5	1.25
85	LUMB SUC	4340.	6521.	1.492	14401.5	72.6	9131.	8148.	983.	3.52	52.19	.80	1	24.9	19.8	53.9	1.16
85	LUMB SUC	4340.	6520.	1.492	8721.1	43.5	6076.	5254.	822.	2.13	52.17	.75	2	25.0	19.8	55.5	1.02
95	CANDELAR S	4796.	6370.	1.322	12630.8	43.2	6057.	5196.	861.	2.77	35.62	.75	2	25.0	20.2	45.0	.00
137	TUCUM SUC	3730.	5700.	1.515	7472.6	43.0	11409.	4484.	6925.	2.16	55.41	.80	1	26.5	21.5	56.9	1.07
164	LAVALLE S	4344.	5900.	1.350	8082.8	34.5	7640.	3406.	4234.	1.98	38.89	.80	1	27.7	20.8	46.3	.00
164	LAVALLE S	4344.	6100.	1.395	9113.6	39.5	4921.	4559.	362.	2.23	43.31	.75	2	25.0	20.8	50.5	.06
185	RECREO SUC	4149.	5800.	1.389	8020.0	49.9	8060.	3975.	4085.	2.07	42.92	.75	2	27.7	21.3	50.6	.06
205	DEAN F SUC	3963.	5900.	1.477	7783.5	41.5	7457.	4323.	3134.	2.10	51.27	.80	1	25.2	19.8	52.9	.46
204	DEAN F SUC	4635.	6250.	1.341	9077.6	36.1	4786.	3969.	817.	2.08	37.85	.75	2	25.0	21.6	47.7	.00
227	FERREY SUC	4473.	5751.	1.280	6430.5	20.0	4564.	2214.	2350.	1.53	31.78	.80	1	25.2	21.7	42.5	.00
246	TIO PUJIOS	4574.	5500.	1.198	11911.7	31.4	6470.	3157.	3313.	2.75	22.94	.75	2	25.0	20.7	36.6	.00
260	LEONES SC	4180.	5500.	1.308	11413.2	39.5	6548.	4567.	1981.	2.90	34.64	.75	2	25.0	19.9	43.7	.00
272	SAN J.N SC	4392.	5651.	1.280	11327.0	37.1	6591.	4150.	2441.	2.73	31.71	.75	2	25.0	20.7	42.6	.00





Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for MIRA DIS, P.VIEJO, LOOP, END LOOP, TORZALITO, TORZALITO\*, and CUCHUMA.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for MIRA DIS, LAVAYEN, P.VIEJO, TORZALITO, TORZALITO\*, VALVE N22, CUCHUMA, LUMB SUC, LUMB DIS, INFIERNILL, CANDELAR S, VALVE N-29, TRAPANI, TIMBO, CLAS.TRA.2, ALDERETE, TUCUMAN N, PIEDRAS, METAN, FRONTERA.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes entries for INFIERNILL, VALVE N-29, TRAPANI, TIMBO, ALDERETE, TUCUMAN N, REG 16", VALVE LN19, METAN, VALVE LN21, VALVE LN22, INTRCNT 8", VALVE LN23, VALVE LN24, VALVE LN26, VALVE LN27, CLAS.TRA.2, 16-24 LOOP, TUCUM SUC, TUCUM DIS, BRACHOS.





Table with columns for node names, node numbers, coordinates (E, N, U), and descriptions of connections and elevations. Includes entries like CANADA DE, END LOOP, CORREA, CARCARANA, etc.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*

Main table with columns: NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Contains numerous rows of system data.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION

\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* C O N N E C T O R \*\*\*\*\*



NAME	TYPE	NODE	TMP	P	ELEV	TAKE	QMAX	QMIN	*	NAME	NODE	P	* NO	FLOW	LNTH	DP/M	SG	DIAM	KWR	FUEL
30" X-OVER	0	7203	16.9	4829.	30.	0.	0.	0.	*	CNTL VALVE	7204	3915.	* 729	6548.3	1.40	652.5	.591	252.		
CNTL VALVE	0	7204	12.8	3915.	30.	0.	0.	0.	*	WILLMOR **	5301	3906.	* 730	6548.3	2.60	3.4	.591	745.		
WILLMOR **	3	5301	13.2	3906.	30.	0.	0.	0.	*	DEL NORTE	5302	3905.	* 731	2269.0	1.80	.8	.591	745.		
DEL NORTE	3	5302	13.9	3905.	32.	0.	0.	0.	*	GROMANTI	5303	3904.	* 732	2269.0	.20	6.4	.591	745.		
GROMANTI	3	5303	14.0	3904.	36.	0.	0.	0.	*	INDIO CUA	5304	3902.	* 733	2269.0	2.70	.6	.591	745.		
INDIO CUA	3	5304	14.8	3902.	37.	0.	0.	0.	*	MONTES OCA	5305	3901.	* 734	2269.0	1.40	.7	.591	745.		
MONTES OCA	3	5305	15.2	3901.	38.	0.	0.	0.	*	CARTOCOR	5306	3895.	* 735	2269.0	14.20	.5	.591	743.		
CARTOCOR	3	5306	16.7	3895.	38.	0.	0.	0.	*	OPEN DOOR	5307	3893.	* 736	2269.0	2.10	.6	.591	743.		
OPEN DOOR	3	5307	16.7	3893.	39.	0.	0.	0.	*	RODRIGUEZ*	5308	3886.	* 737	2269.0	17.20	.5	.591	743.		

# RTI-PIN- GASODUCTO NORTE ETAPA 3

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2(1990)

PAGE 1

## TITLE CARDS

-----

SYSTEM: TGN  
SEASON: GTO NORTE Y TRAMOS FINALES  
FORECAST:...8200RTI

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. Norte pod. calorífico 9250 Kcal/m3

DESVIO ARIJON 3.000

Updated on: 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

TYPE	NAME	NODE	OTHER CUSTID	DEMAND FLOW	PSALE
3	TARTAGAL	1101	1	-13.0	6721.
3	AYE TARTAG	1102	1	.0	6691.
3	VESPUCIO	1103	1	-3.0	6631.
3	EMBARCAC	1104	1	-2.0	5853.
3	PICHANAL	1105	1	-73.0	5555.
3	NORANDINO	1106	1	-2400.0	6198.
3	URUNDEL	1107	1	-2.0	5937.
3	PREDILIANA	1108	1	-605.0	5196.
3	MIRAFLORES	1109	1	-386.0	4543.
3	TORZALITO	9187	1	.0	6057.
3	LAVAYEN	1110	1	-4.0	6372.
3	P.VIEJO	1111	1	.0	6325.
3	TORZALIT*	1112	1	-2182.0	6032.
3	TERMOAND	1113	1	-1413.0	4487.
3	CUCHUMA	1114	1	.0	5116.
3	TIMBO	7090	1	.0	5954.
3	ALDERETE	7094	1	.0	5856.
3	TUCUMAN N	7096	1	.0	5819.
3	PIEDRAS	1115	1	.0	6242.
3	METAN	1116	1	-16.0	6177.
3	FRONTERA	1117	1	-6.0	5782.
3	TRAPANI	1118	1	-76.0	4288.
3	TIMBO	1119	1	.0	4218.

3	ALDERETE	1120	1	-3.0	4028.
3	TUCUMAN N	1121	1	-501.0	3963.
3	BRACHOS	1122	1	-2331.0	3940.
3	TUCUMAN S	1123	1	-268.0	5527.
3	TUC M (*)	1124	1	-2339.0	5447.
3	ESTERO	1125	1	-226.0	4886.
3	LA PAZ	7136	1	.0	5741.
3	LAVALLE	1126	1	.0	5789.
3	LOMA NEGRA	1127	1	.0	5490.
3	FRIAS	1128	1	-13.0	5295.
3	LA PAZ	1129	1	.0	4683.
3	LA RIOJA *	2101	1	-192.0	5750.
3	YPF QUILIN	2102	1	-3.0	4514.
3	QUILINO	2103	1	.0	4383.
3	DEAN FUNES	2104	1	-36.0	5827.
3	TOTORAL	2105	1	-31.0	5529.
3	JESUS MARI	2106	1	-66.0	5168.
3	END LOOP	2197	1	.0	4700.
3	YPF MONTE	2107	1	.0	4666.
3	CORDOBA N	2108	1	-490.0	4663.
3	MONTECRIST	2109	1	-13.0	4623.
3	CORDOBA S	2110	1	-697.0	4453.
3	TOLEDO	2111	1	-1115.0	5375.
3	R. SEGUNDO	2112	1	-22.0	5252.
3	PILAR EPEC	2113	1	-1562.0	5213.
3	PILAR-ARRY	2114	1	-302.0	5210.

1  
PCASIM VERSION 2(1990)

PAGE 11

TYPE	NAME	OTHER NODE	DEMAND CUSTID	FLOW	PSALE
3	PILAR P(*)	2115	1	-19.0	5210.
3	LAG LARGA	2116	1	-8.0	5163.
3	ONCATIVO	2117	1	-36.0	5072.
3	OLIVA (*)	2118	1	-474.0	4989.
3	HPTL VIDA*	2119	1	.0	4969.
3	JAMES CRK	2120	1	-10.0	4903.
3	TIO PUJIO	2121	1	-17.0	4545.
3	GRAL CE	2122	1	-150.0	5416.
3	VIL. MARIA	2123	1	-49.0	5415.
3	LAS PLAYAS	2124	1	-162.0	5384.
3	BELL VILLE	2125	1	-74.0	5201.
3	SAN MARCOS	2126	1	-6.0	5128.
3	LEONES	2127	1	-18.0	4628.
3	MARCOS J.	2128	1	-46.0	5400.
3	GRAL RO(*)	2129	1	-3.0	5337.
3	ARMSTRONG	3101	1	.0	5188.
3	LAS PAREJA	3102	1	.0	5167.
3	CANADA DE	3103	1	.0	5103.
3	CORREA	3104	1	.0	5054.
3	CARCARANA	3105	1	.0	4893.
3	SAN JR 24	3305	1	.0	5504.
3	SAN JR 30	7102	1	.0	5596.
3	ROLDAN 24	3306	1	.0	4944.
3	ROS. NOR 24	3307	1	-1264.0	4941.
3	ROS. NOR 30	7104	1	.0	5506.
3	ROS. SUR*24	3308	1	-1006.0	4826.
3	ARROYO	3309	1	-283.0	4675.
3	CONST. 24*	3310	1	-550.0	4451.
3	S NICOL 24	3311	1	-1457.0	4269.
3	PERGAM 24	3312	1	-452.0	4268.
3	AES PAR.22	3313	1	.0	4241.
3	HOUSTON 22	3314	1	-1374.0	4212.
3	RAMALLO 22	3315	1	-103.0	4189.
3	VBS 73 SC	7573	1	.0	5085.
3	RAMALLO*30	7110	1	-1950.0	5169.
3	ARREC. 22	3316	1	-226.0	4038.
3	SAN PED 22	3317	1	-234.0	4038.
3	ARREC. 30	7112	1	.0	5041.
3	BARA22	3318	1	-157.0	4003.
3	TIMBUES	3417	1	.0	5566.
3	ALDAO	3418	1	-1884.0	5480.
3	OLIVEROS	3419	1	-7.0	5479.
3	MACIEL	3420	1	-5.0	5476.
3	BARRANCAS	3421	1	-4.0	5473.
3	CT VO	7596	1	.0	5619.



3	GALVEZ	3422	1	-22.0	5464.
3	CORONDA	3423	1	-9.0	5392.
3	D.ARIJON	7501	1	-3016.0	5315.
3	CTB Lopez*	3500	1	-1810.0	5315.

1  
PCASIM VERSION 2(1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5305.
3	SAUCE VIEJ	3425	1	-33.0	5289.
3	SANTO TOME	3426	1	-57.0	5284.
3	REG.CENTRO	3427	1	-352.0	5275.
3	SANTA FE	3428	1	-402.0	5270.
3	ALD.BRAS.	3429	1	-3624.0	5237.
3	BARADERO30	7113	1	.0	4998.
3	WILLMOR **	5301	1	.0	3906.
3	DEL NORTE	5302	1	.0	3905.
3	GROMANTI	5303	1	.0	3903.
3	INDIO CUA	5304	1	.0	3902.
3	MONTES OCA	5305	1	.0	3901.
3	CARTOCOR	5306	1	.0	3895.
3	OPEN DOOR	5307	1	.0	3893.
3	RODRIGUEZ*	5308	1	-2269.0	3885.
3	SARMIENTO	5309	1	-47.0	3994.
3	ARECO	5310	1	-46.0	3938.
3	S A GILES	5311	1	-43.0	3938.
3	SOLIS 22	5312	1	-754.0	3912.
3	CMP. SENOR	5313	1	-1889.0	3905.
3	CARDALES	5314	1	-22.0	3906.
3	FATIMA	5315	1	-243.0	3884.
3	VILLA ROSA	5316	1	-604.0	3835.
3	DEL VISO	5317	1	-107.0	3822.
3	BTB 1	5318	1	-110.0	3807.
3	PQE.IND.	5319	1	-8.0	3800.
3	PACHECO	5320	1	-2571.0	3791.

----- SUPPLY SUMMARY -----					
NAME	NODE	CUSTID	FLOW	PSUPPLY	
			E3M3/D	KPA(G)	
CAMPO DUR	8200	1	31490.00	7200.	
YA YACUY	8201	1	.00	6967.	
YA CUCHARA	8202	1	.00	6738.	
YA LOMITAS	8203	1	.00	6725.	
YA TRANQ	8204	1	.00	6577.	
YA RAMOS	8205	1	.00	6527.	
YA c_norte	8206	1	.00	6267.	
YA FMORADO	8207	1	.00	6037.	
CAIMANCITO	8502	1	18.00	4952.	



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW M3/D E3.	FUEL M3/D E3.	KWA KW	KWR KW	KWX KW	AM3/S M3/S	HEAD KJ/KG	EFF	TYPE	TA DEG C	TS DEG C	TD DEG C	
33	PICHANAL S	5179.	6250.	1.203	20730.8	45.2	8576.	5549.	3027.	4.19	23.17	.75	2	35.0	20.9	37.2	.00
33	PICHANAL S	5179.	7350.	1.411	3728.6	24.1	4498.	1897.	2601.	.76	44.07	.75	2	35.0	20.9	51.6	.12
33	PICHANAL S	5179.	7351.	1.411	6838.8	33.3	3944.	3481.	463.	1.38	44.08	.75	2	35.0	20.9	51.6	.22
63	MIRA SUC	4435.	6601.	1.478	17280.3	75.8	13691.	9586.	4105.	4.15	51.16	.80	1	25.4	21.2	54.6	1.67
85	LUMB SUC	4381.	6501.	1.474	14561.7	71.2	9131.	7963.	1168.	3.52	50.45	.80	1	24.9	19.6	52.6	.77
85	LUMB SUC	4381.	6500.	1.474	9570.4	45.4	6076.	5573.	503.	2.31	50.43	.75	2	25.0	19.6	54.2	.85
95	CANDELAR S	5127.	6630.	1.288	14061.6	43.3	6057.	5212.	845.	2.88	32.09	.75	2	25.0	21.1	43.5	.00
137	TUCUM SUC	3907.	5800.	1.473	7054.8	39.4	11409.	3925.	7484.	1.95	51.36	.80	1	26.5	21.8	54.8	.70
180	LAVALLE S	4404.	5900.	1.332	8240.2	33.9	7640.	3326.	4314.	2.00	37.26	.80	1	27.7	22.0	46.4	.00
182	LAVALLE S	4757.	6250.	1.308	9973.2	36.1	4921.	3965.	956.	2.22	34.41	.75	2	25.0	21.7	45.5	.00
202	RECREO SUC	4065.	5800.	1.417	8175.4	51.9	8060.	4315.	3745.	2.16	45.70	.75	2	27.7	21.2	52.2	.36
222	DEAN F SUC	3886.	5900.	1.506	7936.5	43.9	7457.	4638.	2819.	2.18	53.95	.80	1	25.2	19.6	54.4	.72
221	DEAN F SUC	4681.	6150.	1.307	9937.3	35.9	4786.	3946.	840.	2.25	34.38	.75	2	25.0	21.4	45.2	.00
244	FERREY SUC	4403.	5501.	1.244	6584.9	18.6	4564.	2001.	2563.	1.59	28.05	.80	1	25.2	21.6	40.0	.00
264	TIO PUJIOS	4345.	5500.	1.260	12918.5	38.7	6470.	4430.	2040.	3.16	29.68	.75	2	25.0	21.0	41.4	.00
279	LEONES SC	4240.	5500.	1.290	12419.1	40.3	6548.	4702.	1846.	3.11	32.78	.75	2	25.0	20.1	42.6	.00
292	SAN J.N SC	4439.	5651.	1.267	12332.0	38.2	6591.	4327.	2264.	2.95	30.38	.75	2	25.0	21.0	42.0	.00











ROS.NOR 30	3	7104	22.0	5506.	34.	0.	0.	0.	* ROS.SUR 30	7105	5472.	* 729	8494.2	8.20	4.1	.594	747.
ROS.SUR 30	0	7105	20.8	5472.	34.	0.	0.	0.	* END LOOP	7193	5366.	* 730	8494.2	25.40	4.2	.594	747.
END LOOP	0	7193	18.4	5366.	34.	0.	0.	0.	* CONST. 30	7107	5323.	* 731	8494.2	10.00	4.4	.594	745.
CONST. 30	0	7107	17.8	5323.	37.	0.	0.	0.	* S NICOL 30	7108	5235.	* 732	8494.2	20.00	4.4	.594	745.
S NICOL 30	0	7108	17.2	5235.	41.	0.	0.	0.	* PERGAM 30	7109	5234.	* 733	8494.2	.20	4.3	.594	745.
PERGAM 30	0	7109	17.2	5234.	41.	0.	0.	0.	* RAMALLO*30	7110	5169.	* 734	8494.2	14.80	4.4	.594	745.
RAMALLO*30	3	7110	16.9	5169.	43.	-1950.	0.	0.	* VBS 73 SC	7573	5085.	* 735	6544.2	32.30	2.6	.594	745.
VBS 73 SC	3	7573	16.8	5085.	43.	0.	0.	0.	* SAN PED 30	7111	5041.	* 736	6544.2	18.80	2.3	.594	745.
SAN PED 30	0	7111	16.8	5041.	27.	0.	0.	0.	* ARREC. 30	7112	5041.	* 737	6544.2	.20	2.7	.594	745.
ARREC. 30	3	7112	16.8	5041.	27.	0.	0.	0.	* BARADERO30	7113	4998.	* 738	6544.2	15.50	2.7	.594	745.
BARADERO30	3	7113	16.7	4998.	30.	0.	0.	0.	* VBS CO-75	7275	4960.	* 739	6544.2	14.60	2.6	.594	745.
VBS CO-75	0	7275	16.7	4960.	28.	0.	0.	0.	* SOLIS 30	7116	4863.	* 740	6544.2	35.60	2.7	.594	745.
SOLIS 30	0	7116	16.7	4863.	27.	0.	0.	0.	* FIN LOOP	7117	4835.	* 741	6544.2	9.60	2.9	.594	745.
FIN LOOP	0	7117	16.7	4835.	30.	0.	0.	0.	* 30" X-OVER	7203	4826.	* 742	3272.1	12.00	.7	.594	745.
FIN LOOP	0	7117	16.7	4835.	30.	0.	0.	0.	* 30" X-OVER	7203	4826.	* 743	3272.1	12.00	.7	.594	745.
30" X-OVER	0	7203	16.9	4826.	30.	0.	0.	0.	* CNTL VALVE	7204	3915.	* 744	6544.2	1.40	651.0	.594	252.
CNTL VALVE	0	7204	12.8	3915.	30.	0.	0.	0.	* WILLMOR **	5301	3906.	* 745	6544.2	2.60	3.4	.594	745.
WILLMOR **	3	5301	13.2	3906.	30.	0.	0.	0.	* DEL NORTE	5302	3905.	* 746	2269.0	1.80	.8	.594	745.
DEL NORTE	3	5302	13.9	3905.	32.	0.	0.	0.	* GROMANTI	5303	3903.	* 747	2269.0	.20	6.4	.594	745.
GROMANTI	3	5303	14.0	3903.	36.	0.	0.	0.	* INDIO CUA	5304	3902.	* 748	2269.0	2.70	.6	.594	745.
INDIO CUA	3	5304	14.8	3902.	37.	0.	0.	0.	* MONTES OCA	5305	3901.	* 749	2269.0	1.40	.7	.594	745.
MONTES OCA	3	5305	15.2	3901.	38.	0.	0.	0.	* CARTOCOR	5306	3895.	* 750	2269.0	14.20	.5	.594	743.
CARTOCOR	3	5306	16.7	3895.	38.	0.	0.	0.	* OPEN DOOR	5307	3893.	* 751	2269.0	2.10	.6	.594	743.
OPEN DOOR	3	5307	16.7	3893.	39.	0.	0.	0.	* RODRIGUEZ*	5308	3885.	* 752	2269.0	17.20	.5	.594	743.



# RTI-PIN- GASODUCTO CENTRO OESTE ETAPA 2

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

TITLE CARDS  
-----

SYSTEM: TGN  
SEASON: GTO CENTRO OESTE Y TRAMOS FINALES (ALDAO STA FE)  
FORECAST:...RTICO40

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. CO pod. calorifico 8950 Kcal/m3

DESVIO ARIJON 4.000

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	ALDAO	3417	1	-1884.0	5523.
3	TIMBUES (*)	3418	1	.0	5506.
3	OLIVEROS	3419	1	-7.0	5497.
3	MACIEL	3420	1	-5.0	5479.
3	BARRANCAS	3421	1	-4.0	5452.
3	CT VO	7596	1	.0	5602.
3	GALVEZ	3422	1	-22.0	5417.
3	CORO.NDA	3423	1	-9.0	5390.
3	D.ARIJON	7501	1	-4156.0	5376.
3	CT B Lopez	3500	1	-1810.0	5376.

1  
PCASIM VERSION 2 (1990)

PAGE 11

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5366.
3	SAUCE VIEJ	3425	1	-33.0	5350.
3	SANTO TOME	3426	1	-57.0	5346.
3	REG.CENTRO	3427	1	-352.0	5337.
3	SANTA FE	3428	1	-402.0	5332.
3	ALD.BRAS.	3429	1	-3624.0	5299.

3	PUELEN	4101	1	.0	5331.
3	ALGARROBO	4102	1	.0	4167.
3	STA. ISABEL	4103	1	.0	5368.
3	SAN RAFAEL	4201	1	-260.0	4079.
3	chile	4202	1	-600.0	9078.
3	BEBEDERO	4203	1	-19.0	6150.
3	LA PAZ SLS	4204	1	-9.0	5583.
3	PUEB. DOR.	4205	1	-4.0	5271.
3	MENDOZA	4206	1	-9241.0	5227.
3	SAN LUIS	4207	1	-267.0	6473.

1  
PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	GIGANTE	4208	1	.0	6472.
3	MERCEDES	4209	1	-311.0	5908.
3	CRAMFSA	4210	1	-62.0	5871.
3	J. DARACT	4211	1	-4.0	5235.
3	SAM/BULNES	2232	1	.0	6295.
3	CUARTO	2233	1	-962.0	6203.
3	BASILIO	2234	1	-7.0	6171.
3	LEVA/A.MAR	2235	1	-50.0	5523.
3	A. ROCA	2236	1	-13.0	5130.
3	PED. FUNES	2237	1	-48.0	6350.
3	PASCANAS	2238	1	-4.0	6220.
3	ESCALANTE	2239	1	-22.0	5942.
3	MONTE MAIZ	2240	1	-16.0	5544.
3	ISLA VERDE	2241	1	-7.0	5074.
3	GRL BALDIS	2242	1	-4.0	4862.
3	MONT. BUEY	2243	1	-16.0	6498.
3	CAMILO ALD	2244	1	-31.0	6406.
3	SURGENTES	2245	1	-5.0	6372.
3	CRUZ ALTA	2246	1	-11.0	6260.
3	ARTEAGA	3210	1	.0	6215.
3	J. ESQUINA	3211	1	.0	6006.
3	AREQUITO	3212	1	.0	5633.
3	REG. SUR	3213	1	.0	5221.
3	PUJATO	3214	1	.0	4600.

----- SUPPLY SUMMARY -----				
NAME	NODE	CUSTID	FLOW E3M3/D	PSUPPLY KPA(G)
RANDAL YPF	6001	1	6023.00	5790.
LOMA LATA	6008	1	4000.00	5788.
AGUADA	6005	1	.00	5751.
BORDE MONT	6002	1	200.00	5670.
PETROSUD	6003	1	100.00	4952.
SIERRA CHA	6004	1	2500.00	5740.
LOMA LATA	6006	1	15297.00	6625.
TOTAL	6007	1	5000.00	6570.

0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW	FUEL	KWA	KWR	KWX	AM3/S	HEAD	EFF	TYPE	TA	TS	TD	
					M3/D	M3/D	KW	KW	KW	M3/S	KJ/KG			DEG C	DEG C	DEG C	
					E3.	E3.											
255	SAN J.N SC	4106.	5651.	1.367	9316.1	38.5	6591.	4379.	2212.	2.42	40.69	.75	2	25.0	20.4	48.2	.00
478	PUELE1 SC	4466.	5640.	1.257	12789.3	34.0	4460.	4256.	204.	2.98	29.45	.75	2	21.9	15.8	36.1	.00
479	PUELE23 SC	4362.	6660.	1.516	6278.1	32.4	4460.	3947.	513.	1.53	58.43	.75	2	21.9	16.8	55.6	.71
479	PUELE23 SC	4362.	6661.	1.516	14550.4	66.1	9780.	9152.	628.	3.53	58.45	.75	2	21.9	16.8	55.6	1.64
495	COCHIC1 SC	4038.	5630.	1.385	12723.7	65.6	6481.	6155.	326.	3.31	42.82	.75	2	21.9	16.1	45.1	.00
496	COCHI23 SC	4442.	6590.	1.473	4824.2	30.4	3241.	2778.	463.	1.14	53.50	.75	2	21.9	14.2	50.0	-.02
496	COCHI23 SC	4442.	6591.	1.473	15907.9	66.2	9780.	9163.	617.	3.74	53.52	.75	2	21.9	14.2	50.0	-.05
511	LA MOR1 SC	4029.	6450.	1.587	12395.0	68.7	8820.	8643.	177.	3.24	61.74	.75	2	21.9	16.1	57.8	1.94
512	LA MOR2 SC	4735.	6451.	1.355	20665.7	66.3	9670.	9195.	475.	4.54	41.33	.75	2	21.9	14.4	42.3	.00
514	LA MOR2 DS	6351.	9130.	1.431	600.0	15.8	12050.	351.	11699.	.11	54.40	.75	2	21.9	42.3	77.3	.35
523	BEAZ1-2 SC	4528.	6690.	1.468	16403.6	99.2	9828.	9347.	481.	3.79	51.96	.75	2	22.8	15.5	50.5	.11
523	BEAZ1-2 SC	4528.	6691.	1.468	8272.0	40.4	5872.	4715.	1157.	1.91	51.97	.75	2	22.8	15.5	50.5	.06
523	BEAZ1-2 SC	4528.	6691.	1.468	7591.5	38.2	5872.	4327.	1545.	1.75	51.98	.75	2	22.8	15.5	50.5	.05
554	CHAJAN SC	5048.	6560.	1.294	22288.8	61.2	9337.	8311.	1026.	4.57	33.99	.75	2	23.7	15.3	38.6	.00
566	LA CARLOTA	4741.	6540.	1.372	12006.2	60.7	6665.	5539.	1126.	2.63	42.06	.75	2	23.7	14.4	43.1	.00
566	LA CARLOTA	4741.	6540.	1.372	9152.3	37.6	5961.	4224.	1737.	2.00	42.07	.75	2	23.7	14.4	43.1	.00
578	G BALD. SC	4812.	6550.	1.354	20990.7	66.9	9835.	9289.	546.	4.53	40.34	.75	2	23.7	15.3	42.8	.00
257	SAN J.C.W.	4371.	5651.	1.286	8452.9	41.6	6661.	3114.	3547.	2.02	33.58	.75	2	25.2	15.2	37.9	.00
257	SAN J.C.W.	4371.	5750.	1.308	12386.0	47.1	8022.	4885.	3137.	2.96	35.95	.75	2	25.2	15.2	39.5	.00







# RTI-PIN- GASODUCTO CENTRO OESTE ETAPA 4

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

TITLE CARDS  
-----

SYSTEM: TGN  
SEASON: GTO CENTRO OESTE Y TRAMOS FINALES (ALDAO STA FE)  
FORECAST:...RTICO80

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. CO pod. calorífico 8950 Kcal/m3

DESVIO ARIJON 8.000

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	ALDAO	3417	1	-1884.0	5586.
3	TIMBUES (*)	3418	1	.0	5564.
3	OLIVEROS	3419	1	-7.0	5552.
3	MACIEL	3420	1	-5.0	5528.
3	BARRANCAS	3421	1	-4.0	5493.
3	CT VO	7596	1	.0	5921.
3	GALVEZ	3422	1	-22.0	5446.
3	CORO.NDA	3423	1	-9.0	5411.
3	D.ARIJON	7501	1	-8313.0	5393.
3	CT B Lopez	3500	1	-1810.0	5393.

1  
PCASIM VERSION 2 (1990)

PAGE 11

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5383.
3	SAUCE VIEJ	3425	1	-33.0	5367.
3	SANTO TOME	3426	1	-57.0	5363.
3	REG.CENTRO	3427	1	-352.0	5354.
3	SANTA FE	3428	1	-402.0	5349.
3	ALD.BRAS.	3429	1	-3624.0	5316.
3	PUELEN	4101	1	.0	5328.

3	ALGARROBO	4102	1	.0	4148.
3	STA.ISABEL	4103	1	.0	5376.
3	SAN RAFAEL	4201	1	-260.0	4074.
3	chile	4202	1	-315.0	9078.
3	BEBEDERO	4203	1	-19.0	6150.
3	LA PAZ SLS	4204	1	-9.0	5585.
3	PUEB.DOR.	4205	1	-4.0	5274.
3	MENDOZA	4206	1	-9241.0	5230.
3	SAN LUIS	4207	1	-267.0	6390.

1  
PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	GIGANTE	4208	1	.0	6389.
3	MERCEDES	4209	1	-311.0	5574.
3	CRAMFSA	4210	1	-62.0	5517.
3	J.DARACT	4211	1	-4.0	4710.
3	SAM/BULNES	2232	1	.0	6147.
3	CUARTO	2233	1	-962.0	5973.
3	BASILIO	2234	1	-7.0	5922.
3	LEVA/A.MAR	2235	1	-50.0	5517.
3	A.ROCA	2236	1	-13.0	5308.
3	PED.FUNES	2237	1	-48.0	6299.
3	PASCANAS	2238	1	-4.0	6108.
3	ESCALANTE	2239	1	-22.0	5955.
3	MONTE MAIZ	2240	1	-16.0	5747.
3	ISLA VERDE	2241	1	-7.0	5390.
3	GRL BALDIS	2242	1	-4.0	5102.
3	MONT.BUEY	2243	1	-16.0	6545.
3	CAMILO ALD	2244	1	-31.0	6415.
3	SURGENTES	2245	1	-5.0	6367.
3	CRUZ ALTA	2246	1	-11.0	6205.
3	ARTEAGA	3210	1	.0	6190.
3	J.ESQUINA	3211	1	.0	6115.
3	AREQUITO	3212	1	.0	5991.
3	REG. SUR	3213	1	.0	5449.
3	PUJATO	3214	1	.0	4576.

----- SUPPLY SUMMARY -----				
NAME	NODE	CUSTID	FLOW E3M3/D	PSUPPLY KPA(G)
RANDAL YPF	6001	1	6087.00	5790.
LOMA LATA	6008	1	4000.00	5788.
AGUADA	6005	1	.00	5750.
BORDE MONT	6002	1	200.00	5669.
PETROSUD	6003	1	100.00	4942.
SIERRA CHA	6004	1	2500.00	5739.
LOMA LATA	6006	1	19826.00	6655.
TOTAL	6007	1	5000.00	6570.





0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS	PD	RATIO	FLOW	FUEL	KWA	KWR	KWX	AM3/S	HEAD	EFF	TYPE	TA	TS	TD	
		KPAG	KPAG		M3/D	M3/D	KW	KW	KW	M3/S	KJ/KG			DEG C	DEG C	DEG C	
					E3.	E3.											
255	SAN J.N SC	4106.	5651.	1.367	9316.1	38.5	6591.	4379.	2212.	2.42	40.70	.75	2	25.0	20.4	48.2	.00
480	PUELE1 SC	4450.	5640.	1.262	12853.3	34.5	4460.	4344.	116.	3.01	29.91	.75	2	21.9	15.8	36.4	.00
481	PUELE23 SC	4818.	6660.	1.375	7019.0	29.1	4460.	3308.	1152.	1.53	43.79	.75	2	21.9	16.8	46.2	.00
481	PUELE23 SC	4818.	6661.	1.375	17716.5	61.5	9780.	8354.	1426.	3.86	43.81	.75	2	21.9	16.8	46.3	.00
498	COCHIC1 SC	4018.	5640.	1.394	12786.4	66.9	6481.	6318.	163.	3.35	43.73	.75	2	21.9	16.1	45.7	.00
499	COCHI23 SC	4758.	6590.	1.377	5701.4	29.6	3241.	2677.	564.	1.25	43.62	.75	2	21.9	14.5	43.9	.00
499	COCHI23 SC	4758.	6591.	1.378	18939.9	64.6	9780.	8897.	883.	4.14	43.64	.75	2	21.9	14.5	43.9	.00
516	LA MOR1 SC	4023.	6450.	1.589	12457.3	69.1	8820.	8715.	105.	3.26	61.94	.75	2	21.9	16.1	57.9	1.98
517	LA MOR2 SC	4960.	6451.	1.295	24574.8	66.5	9670.	9228.	442.	5.14	34.88	.75	2	21.9	15.0	38.7	.00
519	LA MOR2 DS	6351.	9130.	1.431	315.0	14.5	12050.	182.	11868.	.06	53.54	.75	2	21.9	38.7	73.3	.16
530	BEAZ1-2 SC	4618.	6660.	1.433	15612.7	90.8	9828.	8283.	1545.	3.53	48.48	.75	2	22.8	14.8	47.6	.00
530	BEAZ1-2 SC	4618.	6661.	1.433	10455.1	45.2	5872.	5548.	324.	2.36	48.49	.75	2	22.8	14.8	47.6	.00
530	BEAZ1-2 SC	4618.	6661.	1.433	10453.5	45.2	5872.	5548.	324.	2.36	48.49	.75	2	22.8	14.8	47.7	.00
562	CHAJAN SC	4441.	6530.	1.461	16272.1	65.9	9337.	9128.	209.	3.82	51.25	.75	2	23.7	14.4	49.0	.00
562	CHAJAN SC	4441.	6530.	1.461	10219.9	46.3	5872.	5733.	139.	2.40	51.26	.75	2	23.7	14.4	49.0	.00
577	LA CARLOTA	4758.	6560.	1.371	13304.1	65.6	6665.	6161.	504.	2.92	42.31	.75	2	23.7	15.6	44.3	.00
577	LA CARLOTA	4758.	6560.	1.371	12044.9	45.4	5961.	5579.	382.	2.64	42.32	.75	2	23.7	15.6	44.3	.00
591	G_BALD. SC	5052.	6600.	1.300	25179.3	68.8	9835.	9613.	222.	5.17	34.88	.75	2	23.7	16.1	40.0	.00
257	SAN J.C.W.	4267.	5651.	1.317	8452.9	43.9	6661.	3403.	3258.	2.06	36.78	.75	2	25.2	13.8	38.7	.00
257	SAN J.C.W.	4267.	5850.	1.362	6422.2	31.6	8022.	2918.	5104.	1.57	41.51	.75	2	25.2	13.8	41.9	.00
257	SAN J.C.W.	4267.	6200.	1.443	10120.8	44.9	6591.	5487.	1104.	2.47	49.53	.75	2	25.0	13.8	47.2	.00







# RTI-PIN- GASODUCTO CENTRO OESTE ETAPA 3

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

TITLE CARDS  
-----

SYSTEM: TGN  
SEASON: GTO CENTRO OESTE Y TRAMOS FINALES (ALDAO STA FE)  
FORECAST:...RTICO60

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. CO pod. calorífico 8950 Kcal/m3

DESVIO ARIJON 6.000

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	ALDAO	3417	1	-1884.0	5566.
3	TIMBUES(*)	3418	1	.0	5541.
3	OLIVEROS	3419	1	-7.0	5528.
3	MACIEL	3420	1	-5.0	5501.
3	BARRANCAS	3421	1	-4.0	5460.
3	CT VO	7596	1	.0	5662.
3	GALVEZ	3422	1	-22.0	5407.
3	CORO.NDA	3423	1	-9.0	5367.
3	D.ARIJON	7501	1	-6235.0	5346.
3	CT B Lopez	3500	1	-1810.0	5346.

1  
PCASIM VERSION 2 (1990)

PAGE 11


----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5337.
3	SAUCE VIEJ	3425	1	-33.0	5321.
3	SANTO TOME	3426	1	-57.0	5316.
3	REG.CENTRO	3427	1	-352.0	5307.
3	SANTA FE	3428	1	-402.0	5302.
3	ALD.BRAS.	3429	1	-3624.0	5269.
3	PUELEN	4101	1	.0	5338.

3	ALGARROBO	4102	1	.0	4213.
3	STA.ISABEL	4103	1	.0	5374.
3	SAN RAFAEL	4201	1	-260.0	4127.
3	chile	4202	1	-315.0	9078.
3	BEBEDERO	4203	1	-19.0	6150.
3	LA PAZ SLS	4204	1	-9.0	5584.
3	PUEB.DOR.	4205	1	-4.0	5273.
3	MENDOZA	4206	1	-9241.0	5229.
3	SAN LUIS	4207	1	-267.0	6447.

1  
PCASIM VERSION 2 (1990)

PAGE 12

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	GIGANTE	4208	1	.0	6447.
3	MERCEDES	4209	1	-311.0	5765.
3	CRAMFSA	4210	1	-62.0	5719.
3	J.DARACT	4211	1	-4.0	4920.
3	SAM/BULNES	2232	1	.0	6281.
3	CUARTO	2233	1	-962.0	6153.
3	BASILIO	2234	1	-7.0	6113.
3	LEVA/A.MAR	2235	1	-50.0	5629.
3	A.ROCA	2236	1	-13.0	5160.
3	PED.FUNES	2237	1	-48.0	6366.
3	PASCANAS	2238	1	-4.0	6208.
3	ESCALANTE	2239	1	-22.0	6085.
3	MONTE MAIZ	2240	1	-16.0	5818.
3	ISLA VERDE	2241	1	-7.0	5273.
3	GRL BALDIS	2242	1	-4.0	5027.
3	MONT.BUEY	2243	1	-16.0	6497.
3	CAMILO ALD	2244	1	-31.0	6387.
3	SURGENTES	2245	1	-5.0	6346.
3	CRUZ ALTA	2246	1	-11.0	6211.
3	ARTEAGA	3210	1	.0	6197.
3	J.ESQUINA	3211	1	.0	6135.
3	AREQUITO	3212	1	.0	5802.
3	REG. SUR	3213	1	.0	5317.
3	PUJATO	3214	1	.0	4575.



----- SUPPLY SUMMARY -----				
NAME	NODE	CUSTID	FLOW E3M3/D	PSUPPLY KPA (G)
RANDAL YFF	6001	1	5859.00	5790.
LOMA LATA	6008	1	4000.00	5788.
AGUADA	6005	1	.00	5752.
BORDE MONT	6002	1	200.00	5674.
PETROSUD	6003	1	100.00	4978.
SIERRA CHA	6004	1	2500.00	5741.
LOMA LATA	6006	1	17934.00	6639.
TOTAL	6007	1	5000.00	6570.



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW M3/D E3.	FUEL M3/D E3.	KWA KW	KWR KW	KWX KW	AM3/S M3/S	HEAD KJ/KG	EFF	TYPE	TA DEG C	TS DEG C	TD DEG C	
255	SAN J.N SC	4106.	5651.	1.367	9316.0	38.5	6591.	4379.	2212.	2.42	40.69	.75	2	25.0	20.4	48.2	.00
479	PUELE1 SC	4505.	5640.	1.247	12625.9	32.9	4460.	4038.	422.	2.92	28.30	.75	2	21.9	15.9	35.4	.00
480	PUELE23 SC	4626.	6660.	1.431	6873.7	31.0	4460.	3679.	781.	1.57	49.72	.75	2	21.9	16.9	50.1	-.01
480	PUELE23 SC	4626.	6661.	1.431	15967.0	62.6	9780.	8548.	1232.	3.64	49.74	.75	2	21.9	16.9	50.1	-.02
497	COCHIC1 SC	4088.	5630.	1.368	12562.9	63.1	6481.	5839.	642.	3.23	41.14	.75	2	21.9	16.1	44.1	.00
498	COCHI23 SC	4566.	6590.	1.434	5096.2	29.9	3241.	2712.	529.	1.16	49.44	.75	2	21.9	14.1	47.3	.00
498	COCHI23 SC	4566.	6591.	1.434	17647.1	67.5	9780.	9395.	385.	4.02	49.46	.75	2	21.9	14.1	47.3	.00
514	LA MOR1 SC	4077.	6450.	1.569	12235.9	66.9	8820.	8299.	521.	3.16	60.06	.75	2	21.9	16.1	56.7	1.64
515	LA MOR2 SC	4817.	6451.	1.333	22675.2	68.1	9670.	9497.	173.	4.89	38.91	.75	2	21.9	14.4	40.8	.00
517	LA MOR2 DS	6351.	9130.	1.431	315.0	14.5	12050.	183.	11867.	.06	54.04	.75	2	21.9	40.7	75.6	.17
527	BEAZ1-2 SC	4607.	6690.	1.443	16723.7	97.0	9828.	9058.	770.	3.79	49.46	.75	2	22.8	15.1	48.5	.00
527	BEAZ1-2 SC	4607.	6691.	1.443	9059.3	41.5	5872.	4908.	964.	2.05	49.47	.75	2	22.8	15.1	48.5	.00
527	BEAZ1-2 SC	4607.	6691.	1.443	8620.1	40.1	5872.	4671.	1201.	1.95	49.48	.75	2	22.8	15.1	48.5	.00
558	CHAJAN SC	4693.	6600.	1.398	17126.8	61.8	9337.	8417.	920.	3.79	44.87	.75	2	23.7	14.6	45.1	.00
558	CHAJAN SC	4693.	6600.	1.398	7263.6	33.8	5872.	3570.	2302.	1.61	44.88	.75	2	23.7	14.6	45.1	.00
572	LA CARLOTA	4688.	6590.	1.397	12463.6	65.3	6665.	6114.	551.	2.76	44.79	.75	2	23.7	14.6	45.0	.00
572	LA CARLOTA	4688.	6590.	1.397	10785.8	43.7	5961.	5292.	669.	2.39	44.80	.75	2	23.7	14.6	45.0	.00
585	G_BALD. SC	4977.	6550.	1.310	23082.9	65.5	9835.	9050.	785.	4.81	35.79	.75	2	23.7	15.6	40.1	.00
257	SAN J.C.W.	4307.	5651.	1.305	8453.0	43.0	6661.	3289.	3372.	2.05	35.53	.75	2	25.2	14.3	38.3	.00
257	SAN J.C.W.	4307.	5850.	1.350	14465.0	58.9	8022.	6377.	1645.	3.50	40.25	.75	2	25.2	14.3	41.4	.00





Table with columns for station name, type, node, tmp, p, elev, take, qmax, qmin, name, node, p, no, flow, lnth, dp/m, sg, diam, kwr, fuel. Includes stations like TCO D, END LOOP, VCO CO-16, etc.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3
\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* CONNECTOR \*\*\*\*\*

Main data table with columns for NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Contains extensive station data including LA PAZ SLS, PUEB.DOR., SAN LUIS, GIGANTE, etc.

NOVACORP INTERNATIONAL CONSULTING LTD. DETAILED SYSTEM DESCRIPTION OUTPUT PART 3
\*\*\*\*\* FROM NODE \*\*\*\*\* TO NODE \*\*\*\*\* CONNECTOR \*\*\*\*\*

Table with columns for NAME, TYPE, NODE, TMP, P, ELEV, TAKE, QMAX, QMIN, NAME, NODE, P, NO, FLOW, LNTH, DP/M, SG, DIAM, KWR, FUEL. Includes stations like LEVA/A.MAR, A.ROCA, LA CARLOTA, etc.



# RTI-PIN- GASODUCTO CENTRO OESTE ETAPA 1

PCASIM

STEADY STATE PIPELINE SIMULATION PROGRAM

VERSION : 2.0

1990-03-01

by

NOVACORP INTERNATIONAL CONSULTING LTD.

Copyright 1990, All rights reserved.

1  
PCASIM VERSION 2 (1990)

PAGE 1

## TITLE CARDS

SYSTEM: TGN  
SEASON: GTO CENTRO OESTE Y TRAMOS FINALES (ALDAO STA FE)  
FORECAST:...RTICO20

DESCRIPTION: AJUSTE DE PODER CALOR.  
Gto. CO pod. calorífico 8950 Kcal/m3

DESVIO ARIJON 2.000

Updated on : 15 - JUL - 1994 (\*\*) (REFERS TO BASE INPUT)

TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	ALDAO	3417	1	-1884.0	5579.
3	TIMBUES (*)	3418	1	.0	5570.
3	OLIVEROS	3419	1	-7.0	5565.
3	MACIEL	3420	1	-5.0	5555.
3	BARRANCAS	3421	1	-4.0	5540.
3	CT VO	7596	1	.0	5632.
3	GALVEZ	3422	1	-22.0	5486.
3	CORO.NDA	3423	1	-9.0	5362.
3	D.ARIJON	7501	1	-2078.0	5299.
3	CT B Lopez	3500	1	-1810.0	5299.

1  
PCASIM VERSION 2 (1990)

PAGE 12

TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	CARLOS CTO	3424	1	-21.0	5290.
3	SAUCE VIEJ	3425	1	-33.0	5273.
3	SANTO TOME	3426	1	-57.0	5269.
3	REG.CENTRO	3427	1	-352.0	5260.
3	SANTA FE	3428	1	-402.0	5254.
3	ALD.BRAS.	3429	1	-3624.0	5221.
3	PUELEN	4101	1	.0	5333.

3	ALGARROBO	4102	1	.0	4180.
3	STA. ISABEL	4103	1	.0	5370.
3	SAN RAFAEL	4201	1	-260.0	4093.
3	chile	4202	1	-2700.0	9061.
3	BEBEDERO	4203	1	-19.0	6150.
3	LA PAZ SLS	4204	1	-9.0	5583.
3	PUEB. DOR.	4205	1	-4.0	5271.
3	MENDOZA	4206	1	-9241.0	5227.
3	SAN LUIS	4207	1	-267.0	6496.

1

PAGE 13

PCASIM VERSION 2 (1990)

----- OTHER DEMAND -----					
TYPE	NAME	NODE	CUSTID	FLOW	PSALE
3	GIGANTE	4208	1	.0	6496.
3	MERCEDES	4209	1	-311.0	5827.
3	CRAMFSA	4210	1	-62.0	5700.
3	J. DARACT	4211	1	-4.0	5017.
3	SAM/BULNES	2232	1	.0	6336.
3	CUARTO	2233	1	-962.0	6002.
3	BASILIO	2234	1	-7.0	5881.
3	LEVA/A. MAR	2235	1	-50.0	5108.
3	A. ROCA	2236	1	-13.0	4760.
3	PED. FUNES	2237	1	-48.0	6375.
3	PASCANAS	2238	1	-4.0	6048.
3	ESCALANTE	2239	1	-22.0	5676.
3	MONTE MAIZ	2240	1	-16.0	5335.
3	ISLA VERDE	2241	1	-7.0	4935.
3	GRL BALDIS	2242	1	-4.0	4757.
3	MONT. BUEY	2243	1	-16.0	6499.
3	CAMILO ALD	2244	1	-31.0	6423.
3	SURGENTES	2245	1	-5.0	6324.
3	CRUZ ALTA	2246	1	-11.0	5962.
3	ARTEAGA	3210	1	.0	5907.
3	J. ESQUINA	3211	1	.0	5726.
3	AREQUITO	3212	1	.0	5406.
3	REG. SUR	3213	1	.0	5055.
3	PUJATO	3214	1	.0	4534.

----- SUPPLY SUMMARY -----					
NAME	NODE	CUSTID	FLOW	PSUPPLY	
			E3M3/D	KPA(G)	
RANDAL YPF	6001	1	5974.00	5790.	
LOMA LATA	6008	1	4000.00	5788.	
AGUADA	6005	1	.00	5751.	
BORDE MONT	6002	1	200.00	5672.	
PETROSUD	6003	1	100.00	4960.	
SIERRA CHA	6004	1	2500.00	5740.	
LOMA LATA	6006	1	16009.00	6625.	
TOTAL	6007	1	5000.00	6570.	



0

\*\*\*\*\* STATION SUMMARY \*\*\*\*\*

NO	NAME	PS KPAG	PD KPAG	RATIO	FLOW	FUEL	KWA	KWR	KWX	AM3/S	HEAD	EFF	TYPE	TA	TS	TD		
					M3/D	M3/D	KW	KW	KW	M3/S	KJ/KG			DEG C	DEG C	DEG C		
					E3.	E3.												
255	SAN J.N	SC	4106.	5651.	1.367	9316.0	38.5	6591.	4379.	2212.	2.42	40.69	.75	2	25.0	20.4	48.2	.00
477	PUELE1	SC	4477.	5640.	1.254	12741.6	33.7	4460.	4191.	269.	2.96	29.11	.75	2	21.9	15.9	35.9	.00
478	PUELE23	SC	4340.	6660.	1.523	6359.1	33.0	4460.	4049.	411.	1.55	59.17	.75	2	21.9	16.8	56.0	.77
478	PUELE23	SC	4340.	6661.	1.523	14550.4	66.8	9780.	9267.	513.	3.55	59.19	.75	2	21.9	16.8	56.1	1.78
494	COCHIC1	SC	4052.	5630.	1.380	12676.7	64.8	6481.	6061.	420.	3.29	42.32	.75	2	21.9	16.1	44.8	.00
495	COCHI23	SC	4420.	6590.	1.480	4903.8	31.0	3241.	2860.	381.	1.16	54.20	.75	2	21.9	14.2	50.4	.02
495	COCHI23	SC	4420.	6591.	1.480	15907.9	66.8	9780.	9283.	497.	3.76	54.22	.75	2	21.9	14.2	50.4	.08
510	LA MOR1	SC	4043.	6450.	1.581	12348.5	68.2	8820.	8542.	278.	3.22	61.25	.75	2	21.9	16.1	57.4	1.86
511	LA MOR2	SC	4719.	6451.	1.360	20744.5	67.1	9670.	9335.	335.	4.57	41.80	.75	2	21.9	14.4	42.6	.00
513	LA MOR2	DS	6351.	9130.	1.431	2700.0	25.4	12050.	1583.	10467.	.50	54.47	.75	2	21.9	42.6	77.7	1.62
521	BEAZ1-2	SC	4453.	6690.	1.492	14337.5	93.1	9828.	8568.	1260.	3.39	54.43	.75	2	22.8	16.1	52.7	.75
521	BEAZ1-2	SC	4453.	6691.	1.492	8268.0	41.7	5872.	4942.	930.	1.95	54.45	.75	2	22.8	16.1	52.7	.43
521	BEAZ1-2	SC	4453.	6691.	1.492	7587.9	39.4	5872.	4536.	1336.	1.79	54.45	.75	2	22.8	16.1	52.7	.40
551	CHAJAN	SC	4849.	6560.	1.346	20212.7	63.7	9337.	8738.	599.	4.31	39.36	.75	2	23.7	14.7	41.6	.00
562	LA CARLOTA		4412.	6540.	1.472	10064.3	62.6	6665.	5773.	892.	2.38	52.24	.75	2	23.7	14.8	50.0	.00
562	LA CARLOTA		4412.	6540.	1.472	9010.8	43.0	5961.	5169.	792.	2.13	52.25	.75	2	23.7	14.8	50.0	-.03
573	G BALD.	SC	4707.	6550.	1.383	18908.6	65.6	9835.	9063.	772.	4.20	43.65	.75	2	23.7	16.6	46.2	.00
257	SAN J.C.W.		4336.	5651.	1.296	8453.0	42.6	6661.	3242.	3419.	2.06	34.92	.75	2	25.2	16.8	40.3	.00
257	SAN J.C.W.		4336.	5750.	1.319	10308.0	41.9	8022.	4223.	3799.	2.51	37.31	.75	2	25.2	16.8	41.9	.00





ALDAO	3	3417	23.3	5579.	50.	-1884.	0.	0.	* TIMBUES (*)	3418	5570.	* 533	737.0	11.00	.9	.581	394.
ALDAO	3	3417	23.3	5579.	50.	-1884.	0.	0.	* IT.24"	7595	5538.	* 534	2204.0	45.90	.9	.581	592.
TIMBUES (*)	3	3418	17.3	5570.	50.	0.	0.	0.	* OLIVEROS	3419	5565.	* 535	737.0	5.70	.8	.581	394.
OLIVEROS	3	3419	17.1	5565.	50.	-7.	0.	0.	* MACIEL	3420	5555.	* 536	730.0	12.20	.8	.581	394.
MACIEL	3	3420	17.0	5555.	50.	-5.	0.	0.	* BARRANCAS	3421	5540.	* 537	725.0	18.10	.8	.581	394.
IT.30"	0	7620	17.1	5539.	50.	0.	0.	0.	* END LOOP24	7500	5525.	* 538	5483.0	.10	140.1	.581	311.
IT.24"	0	7595	17.0	5538.	50.	0.	0.	0.	* END LOOP24	7500	5525.	* 539	2204.0	14.00	.9	.581	592.
END LOOP24	0	7500	17.0	5525.	50.	0.	0.	0.	* GALVEZ	3422	5486.	* 540	6240.5	5.60	7.1	.581	592.
BARRANCAS	3	3421	17.0	5540.	50.	-4.	0.	0.	* END LOOP24	7500	5525.	* 541	721.0	17.90	.8	.581	394.
END LOOP24	0	7500	17.0	5525.	50.	0.	0.	0.	* GALVEZ	3422	5486.	* 542	2167.5	5.60	7.1	.581	394.
BARRANCAS	3	3422	16.9	5486.	50.	-22.	0.	0.	* END LOOP	3483	5426.	* 543	2161.3	8.40	7.1	.581	394.
GALVEZ	3	3422	16.9	5486.	50.	-22.	0.	0.	* END LOOP	3483	5426.	* 544	6224.7	8.40	7.1	.581	592.
END LOOP	0	3483	16.7	5426.	50.	0.	0.	0.	* CORO.NDA	3423	5362.	* 545	2161.3	8.90	7.2	.581	394.
END LOOP	0	3483	16.7	5426.	50.	0.	0.	0.	* CORO.NDA	3423	5362.	* 546	6224.7	8.90	7.2	.581	592.
CORO.NDA	3	3423	16.6	5362.	50.	-9.	0.	0.	* D.ARIJON	7501	5299.	* 547	2159.0	8.60	7.3	.581	394.
CORO.NDA	3	3423	16.6	5362.	50.	-9.	0.	0.	* D.ARIJON	7501	5299.	* 548	6218.0	8.60	7.3	.581	592.
D.ARIJON	3	7501	16.5	5299.	50.	-2078.	0.	0.	* GNEA	7503	5299.	* 549	1810.0	.10	.6	.581	592.
GNEA	0	7503	16.5	5299.	50.	0.	0.	0.	* CT B Lopez	3500	5299.	* 550	1810.0	.10	.6	.581	592.
D.ARIJON	3	7501	16.5	5299.	50.	-2078.	0.	0.	* CARLOS CTO	3424	5290.	* 551	865.0	8.30	1.2	.581	394.
CARLOS CTO	3	3424	16.9	5290.	50.	-21.	0.	0.	* SAUCE VIEJ	3425	5273.	* 552	844.0	14.30	1.1	.581	394.
SAUCE VIEJ	3	3425	17.0	5273.	50.	-33.	0.	0.	* SANTO TOME	3426	5269.	* 553	811.0	4.30	1.1	.581	394.
SANTO TOME	3	3426	17.0	5269.	50.	-57.	0.	0.	* 16" - 12"	7502	5269.	* 554	754.0	.10	.9	.581	394.
16" - 12"	0	7502	17.0	5269.	50.	0.	0.	0.	* REG.CENTRO	3427	5260.	* 555	754.0	2.10	4.2	.581	293.
REG.CENTRO	3	3427	17.0	5260.	50.	-352.	0.	0.	* SANTA FE	3428	5254.	* 556	402.0	4.40	1.2	.581	293.
D.ARIJON	3	7501	16.5	5299.	50.	-2078.	0.	0.	* GTO E RIOS	9700	5233.	* 557	3624.0	26.70	2.5	.581	584.
GTO E RIOS	0	9700	16.8	5233.	50.	0.	0.	0.	* STAT 1 PS	9901	5218.	* 558	3624.0	5.00	3.1	.581	592.