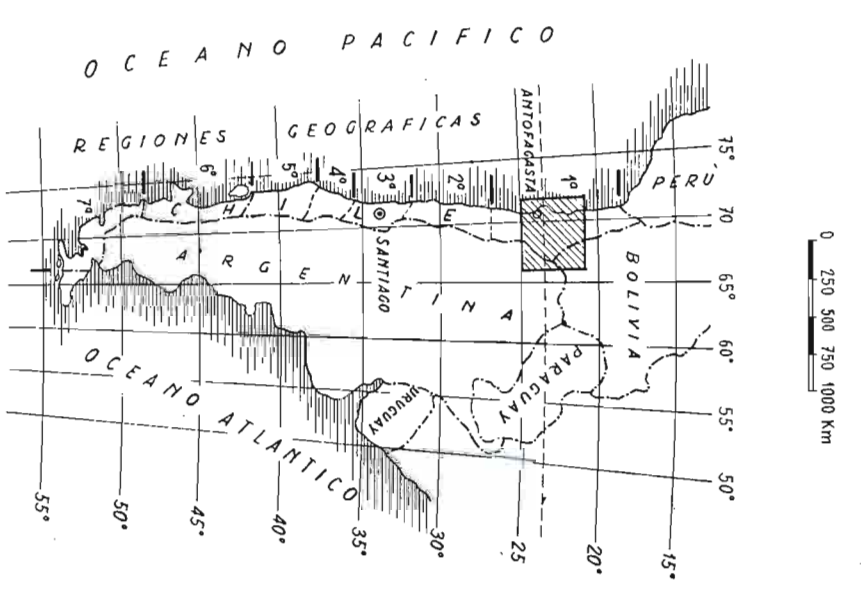
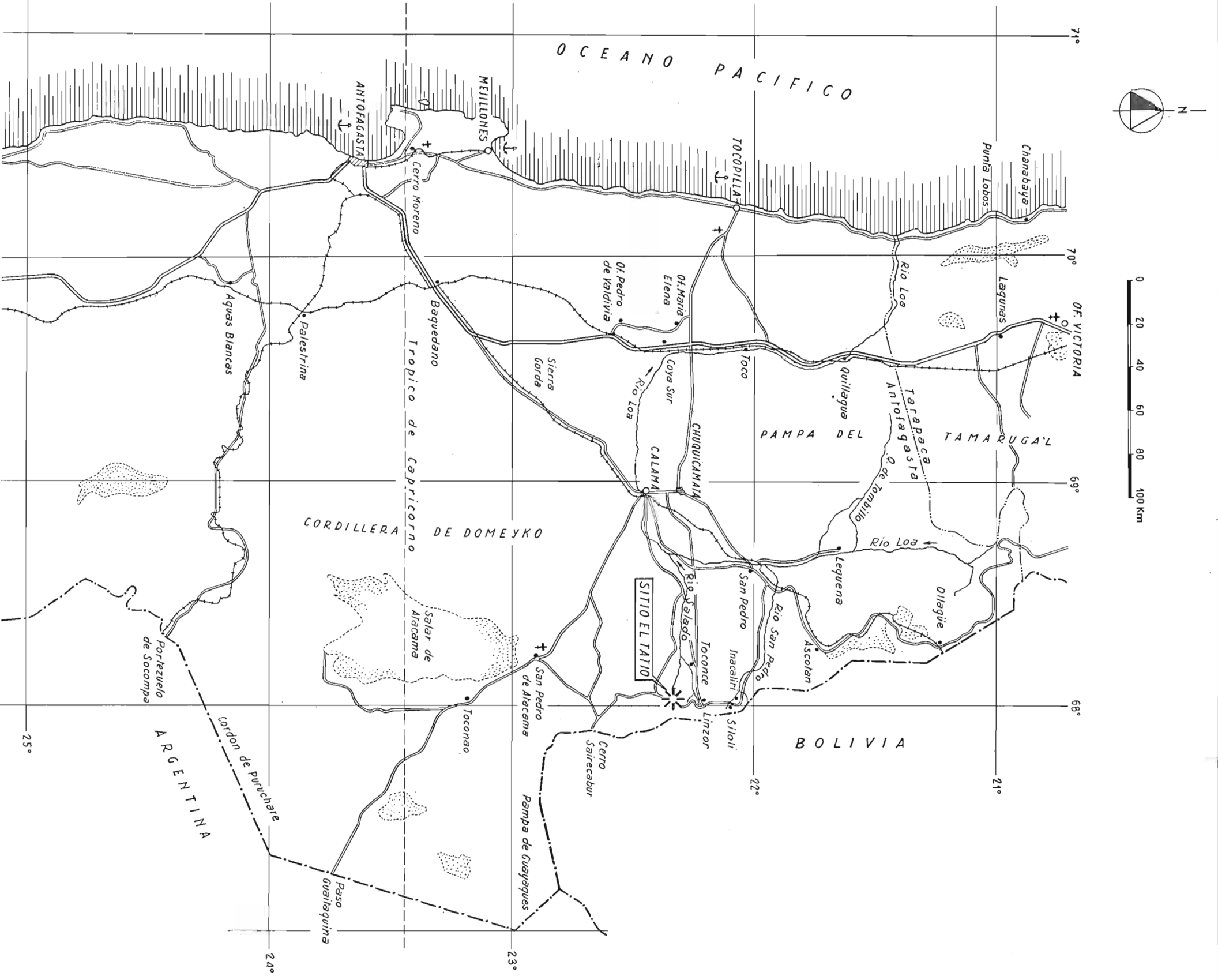
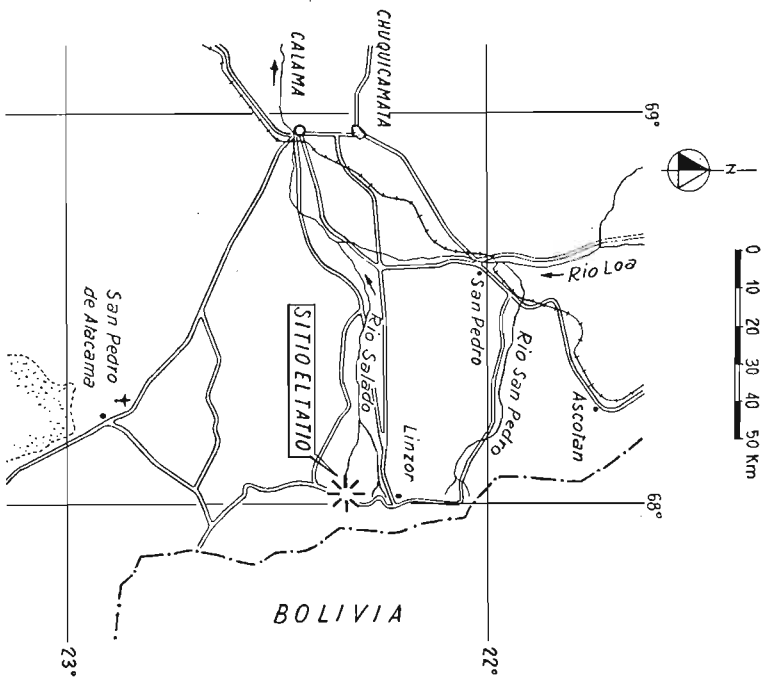
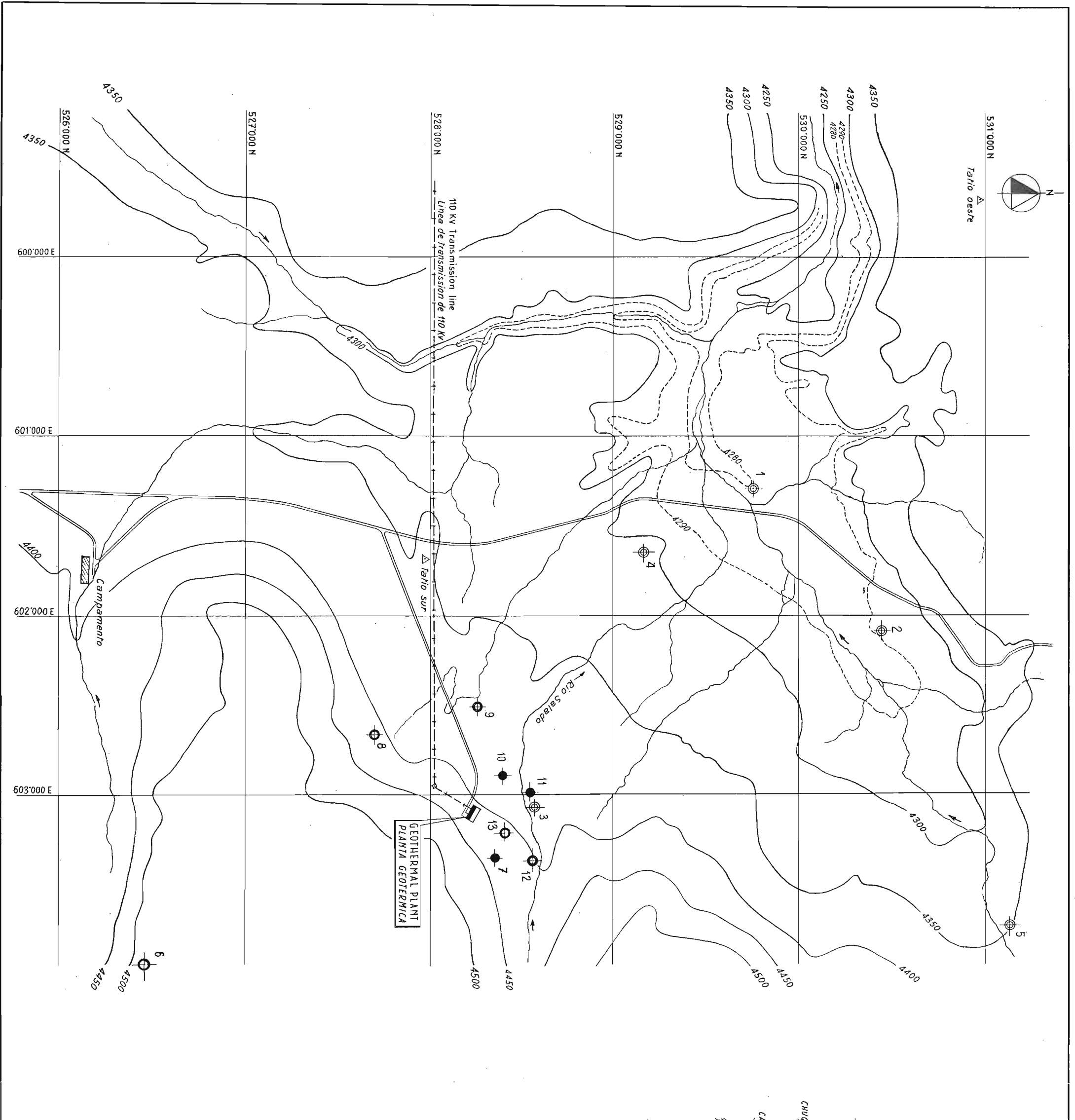




LEGEND - LEYENDA

- International borders
- Provincial border
- Panamerican road
- Other roads
- Railways
- Main towns
- Important towns
- Other towns and villages
- Airports
- Harbours

UNITED NATIONS - NACIONES UNIDAS	PROJECT AREA
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD	AREA DEL PROYECTO
FEASIBILITY REPORT - INFORME DE FACTIBILIDAD	
1975	GCI 1001



LEGENDA - LEYENDA

- Exploration wells
Pozos de exploración
- Deep wells
Pozos profundos
- Deep productive wells
Pozos productivos



UNITED NATIONS - NACIONES UNIDAS			
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD			
EXPLORACION DEL CAMPO GEOTERMICO DE EL TATIO			
FEASIBILITY REPORT - INFORME DE FACIBILIDAD			
LOCATION MAP OF EL TATIO			
GEO THERMAL FIELD			
MAPA DE UBICACION DEL CAMPO GEOTERMICO DE EL TATIO			
CHINA	CHAD	CHAD	FEB. 1975
CHINA	CHAD	CHAD	CHINA
GC I			1002

N 40° W

S 40° E

W 22° N

E 22° S

Surface discharge
Descarga superficial

Tatio Valley
Valle El Tatio

(Hot springs)
(Manantiales calientes)

Minor infiltrations
Infiltraciones menores

Uplow belt
Faja de subida

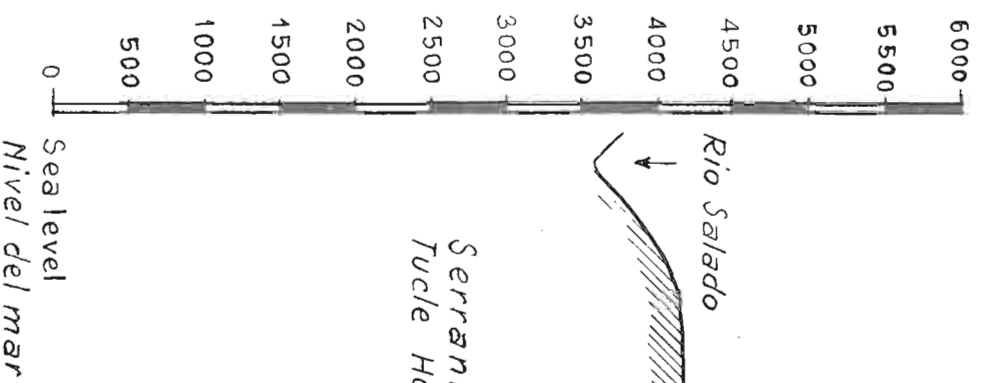
Fumaroles
Fumarolas

Main recharge zone
Area principal de recarga

CHILE

BOLIVIA

Co. Volcanes



Serrania de
Tucle Horst

Rio Salado

Sea level
Nivel del mar

Deepest part of main graben
(Geology unknown)
Porción más profunda del graben principal
(Geología desconocida)

Eastern edge
of graben
Margen oriental
del graben

LEGEND - LEYENDA

- A Tucle perched aquifer
Acuifero colgante Tucle
- B Puripicar-Salado aquifer
Acuifero Puripicar-Salado
- Peñaliri: impervious to locally pervious
Peñaliri: impermeable hasta localmente permeable
- Aquicludes
Acuicludos

- Quebrada Justo main aquiclude
Acuicludo principal Quebrada Justo
- Copocoya rhyolite
Riolita de Copocoya
- Cool water flow
Flujo de agua fria
- Hot water flow
Flujo de agua caliente
- Wells
Pozos



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FEASIBILITY REPORT - INFORME DE FACTIBILIDAD

EXPLOITATION OF EL TATIO GEOTHERMAL FIELD
EXPLOTACIÓN DEL CAMPO GEOTERMICO DE EL TATIO

UNITED NATIONS - NACIONES UNIDAS

GEOTHERMAL SCHEME

ESQUEMA GEOTERMICO

GC I

1004

GC I

1004

GC I

1004

GC I

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GC I

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GC I

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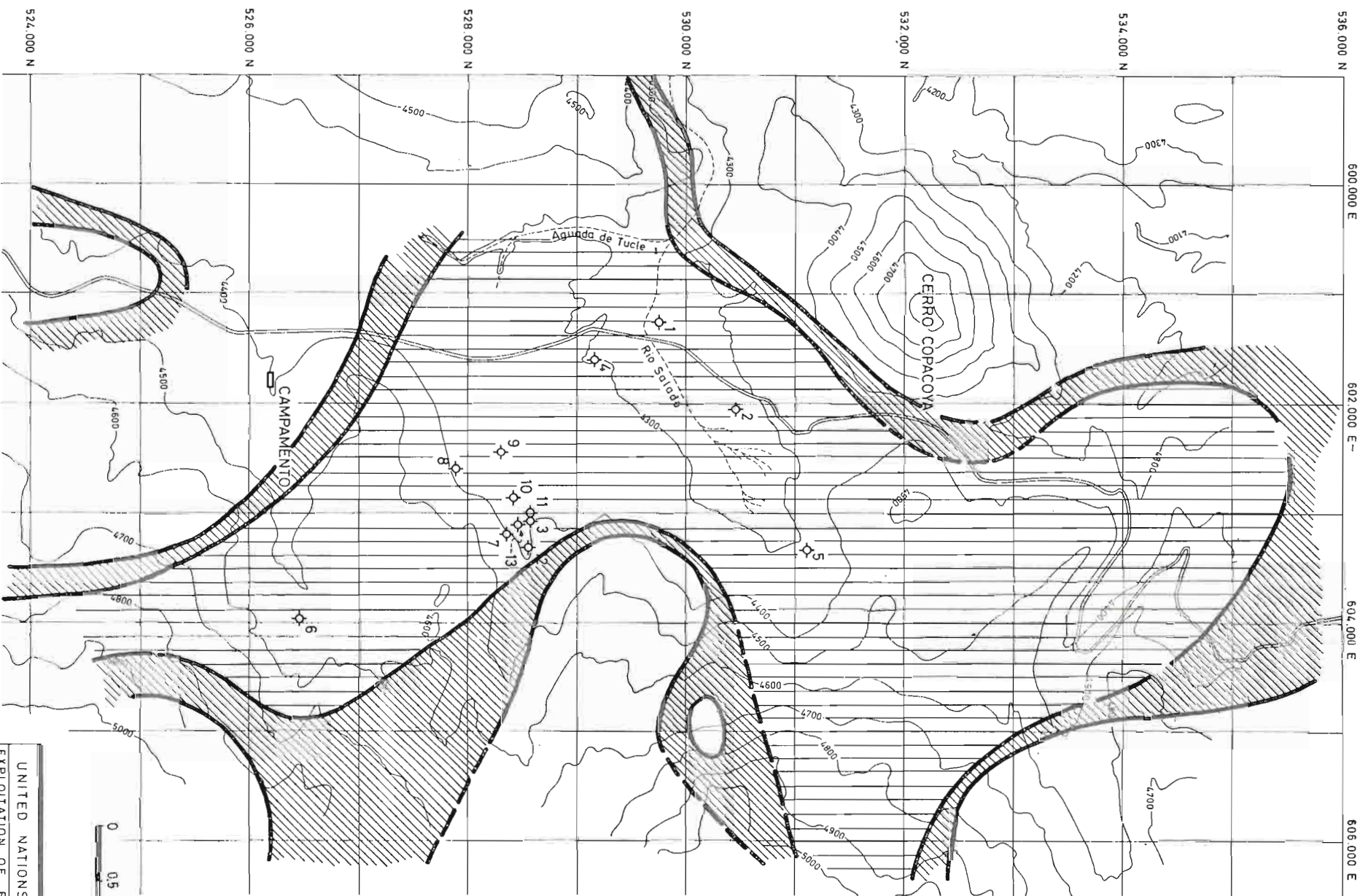
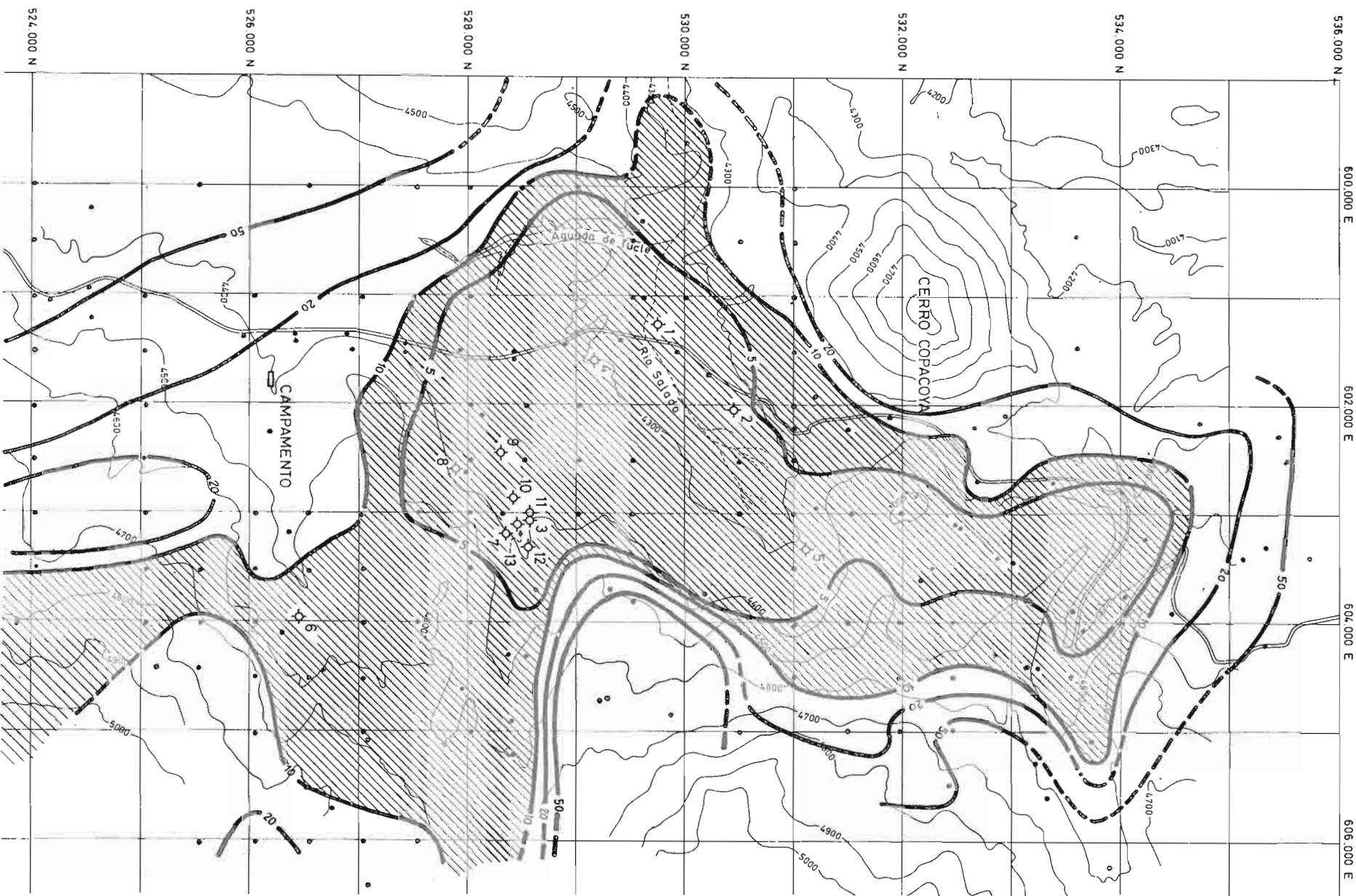
1004

GC I

1004

GC I

1004

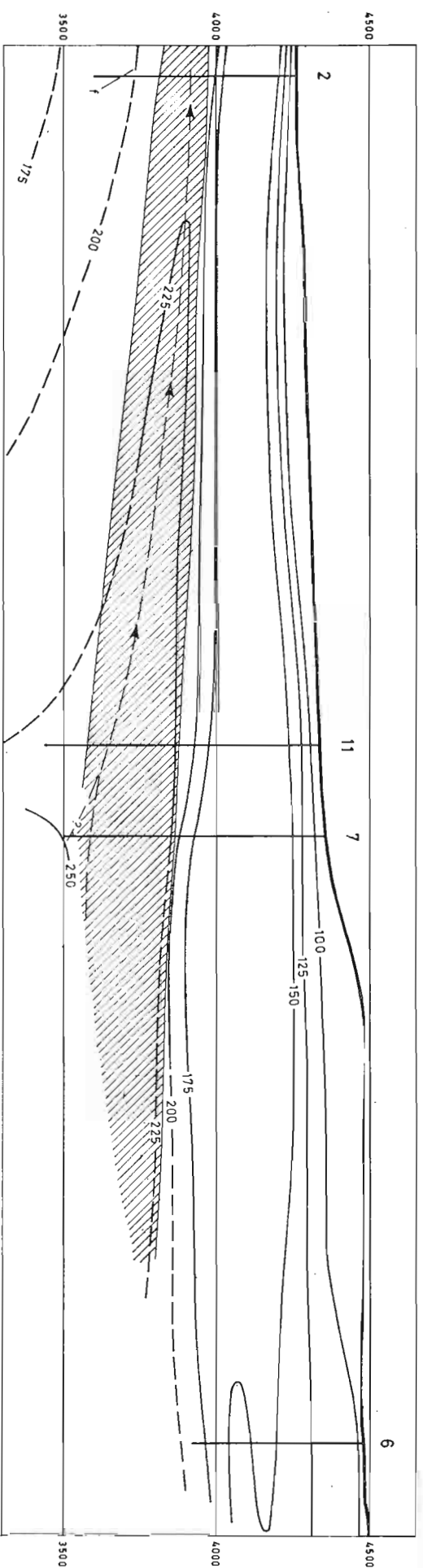




LEGEND - LEYENDA

- Total circulation loss
Perdida total de circulación
- Moderate circulation loss
Perdida parcial de circulación
- 11 Bottom of solid casing
Zapata de la tubería de producción
- (4352) Well elevation (m.a.s.l.)
Cota de boca pozo (m.s.n.m)

UNITED NATIONS - NACIONES UNIDAS	
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD	
EXPLOTACION DEL CAMPO GEOTERMICO DE EL TATIO	
FEASIBILITY REPORT - INFORME DE FACIBILIDAD	
WELL CORRELATION	
CORRELACION ENTRE LOS POZOS	
GC 1	1006



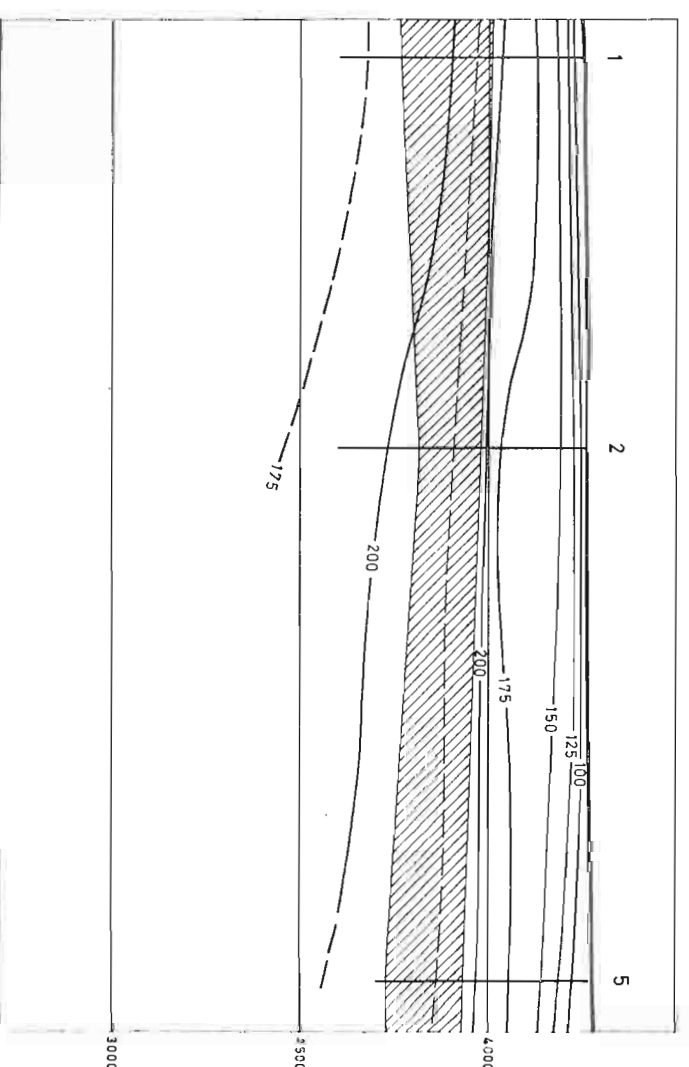
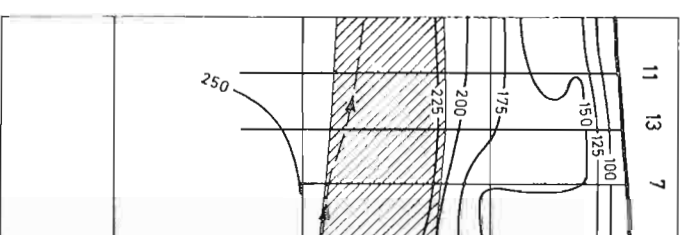
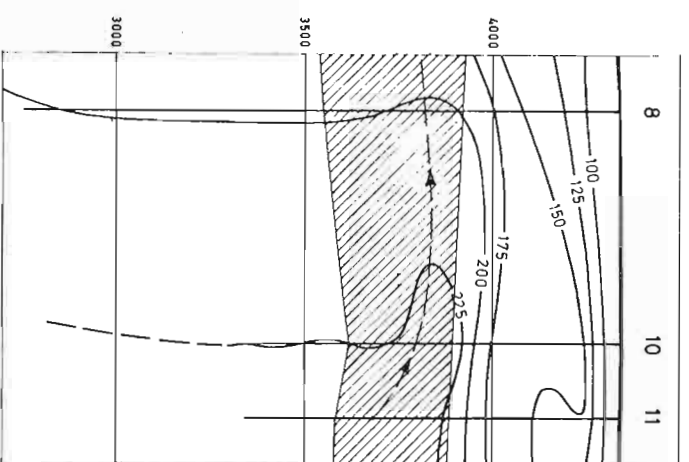
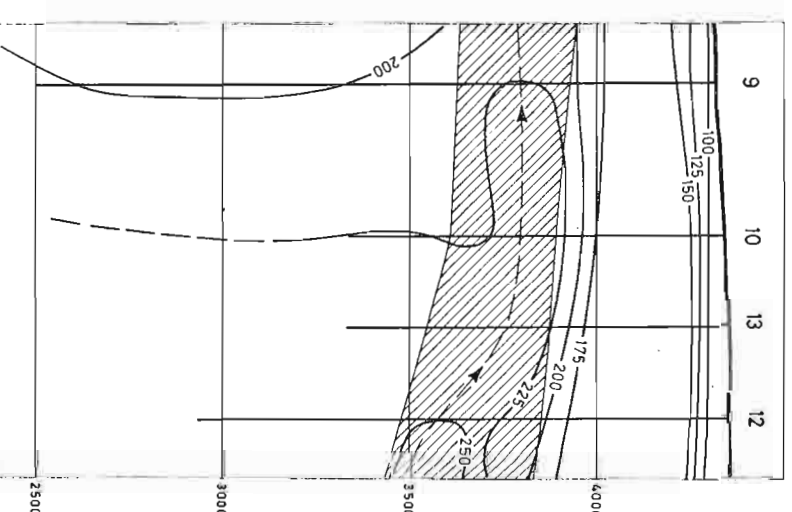
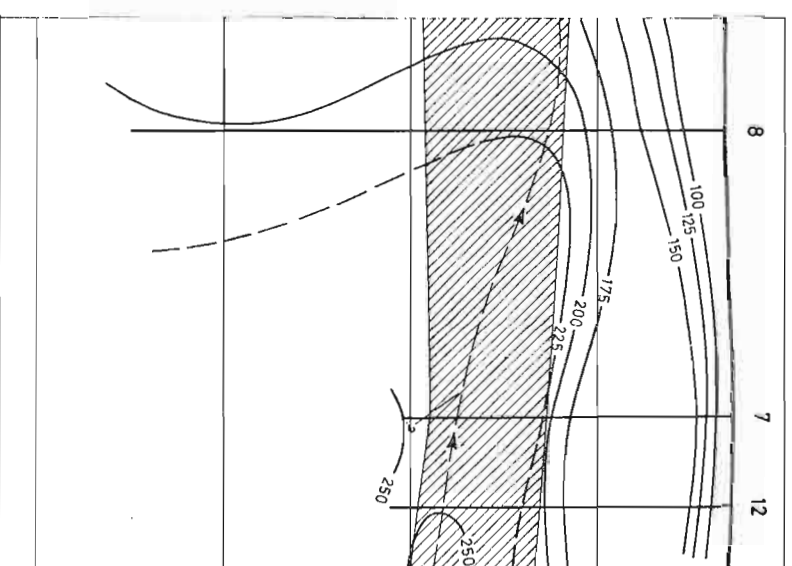
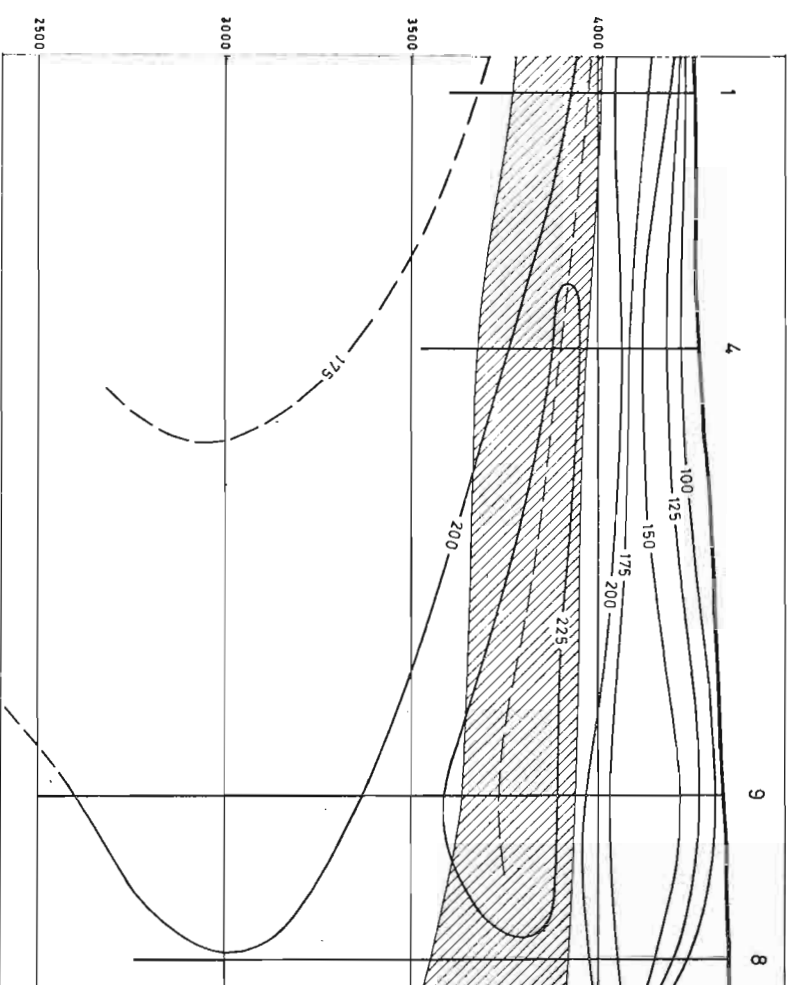
LEGEND - LEYENDA

—175— Isothermal contours in °C
 Plano de máxima temperatura

← Plane of maximum temperature
 Plano de máxima temperatura

Ignimbrites Puripicar and Salado ignimbrites
 Puripicar and Salado ignimbrites

Elevations in meters a.s.l.
 Cotas en metros s.n.m.



0 0.2 0.4 0.6 0.8 1 km

UNITED NATIONS - NACIONES UNIDAS

EXPLOITATION OF EL TATIO GEOTHERMAL FIELD

EXPLOTACION DEL CAMPO GEOTERMICO DE EL TATIO

FEASIBILITY REPORT - INFORME DE FACTIBILIDAD

WELL TEMPERATURE CORRELATION

CORRELACION DE LA TEMPERATURA

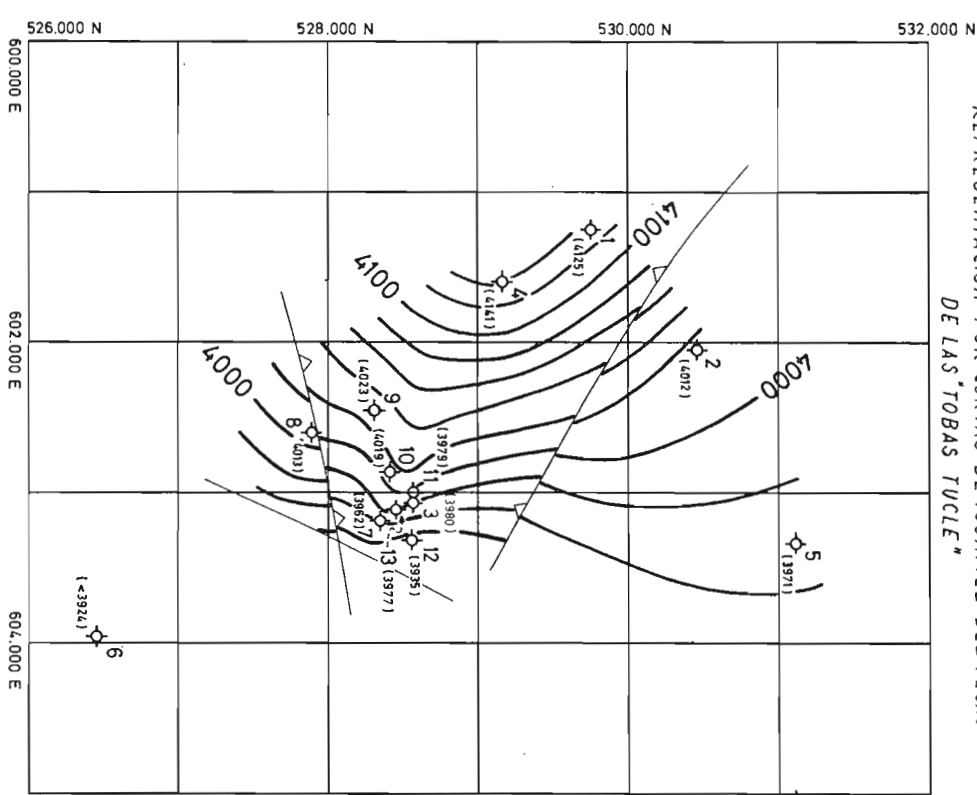
ENTRE LOS POZOS

FEB 1975

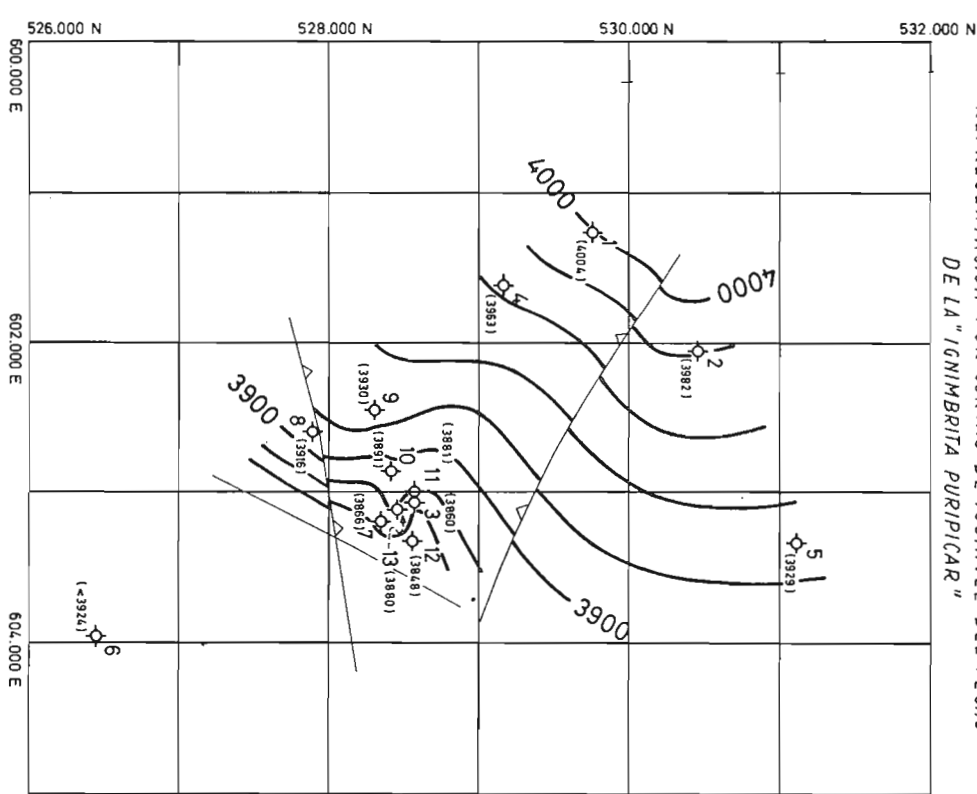
etc

G C I 1007

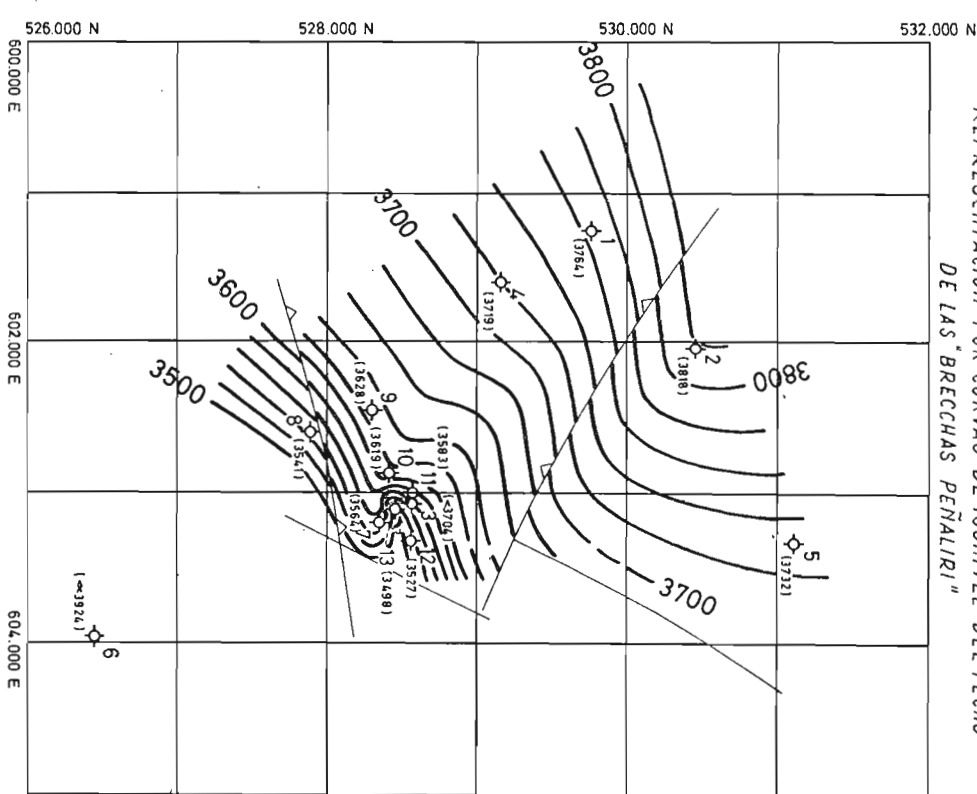
STRUCTURE CONTOUR MAP OF TOP OF "TUCLE TUFF"
 REPRESENTACION POR CURVAS DE SONIVEL DEL TECHO
 DE LAS "TOBAS TUCLE"



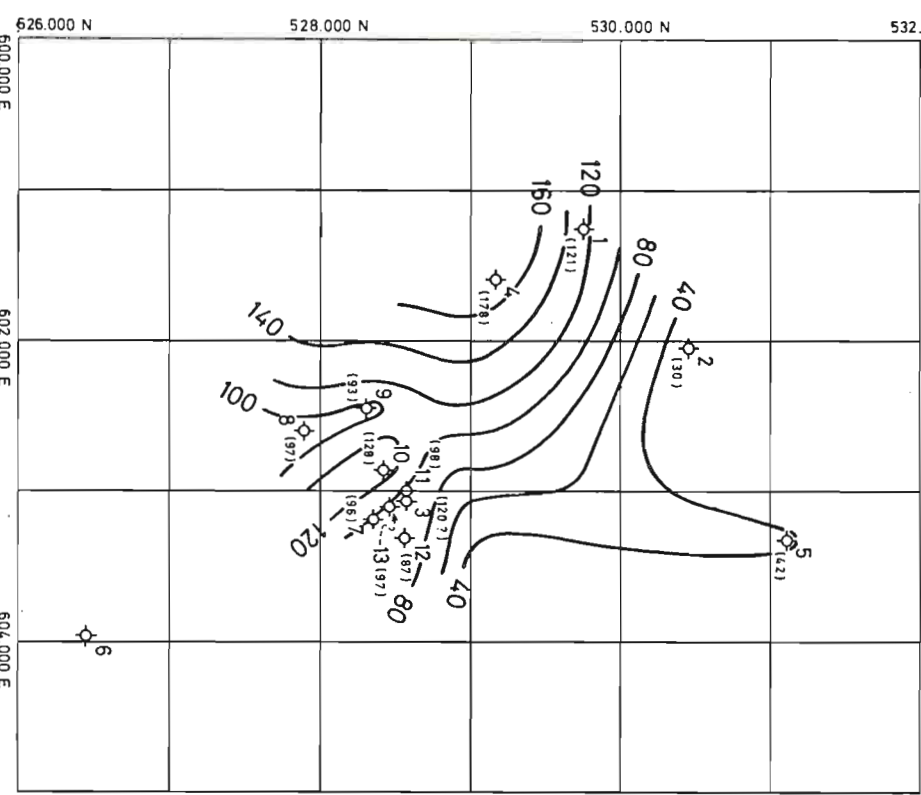
STRUCTURE CONTOUR MAP OF TOP OF "PURIPICAR IGIMBRITE"
 REPRESENTACION POR CURVAS DE SONIVEL DEL TECHO
 DE LA "IGIMBRITA PURIPICAR"



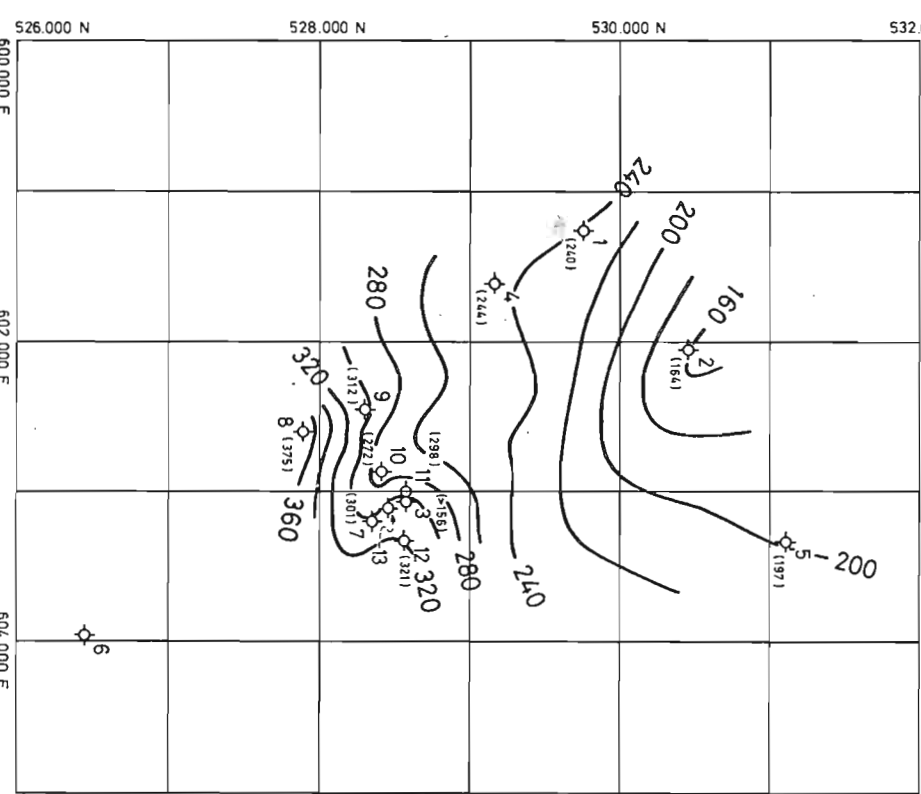
STRUCTURE CONTOUR MAP OF TOP OF "PEÑALIRI BRECCIAS"
 REPRESENTACION POR CURVAS DE SONIVEL DEL TECHO
 DE LAS "BRECCIAS PEÑALIRI"



ISOPACH MAP OF "TUCLE TUFF"
 ISOPACAS DE LAS "TOBAS TUCLE"



ISOPACH MAP OF "PURIPICAR+SALADO IGIMBRITES"
 ISOPACAS DE LAS IGIMBRITAS "PURIPICAR+SALADO"

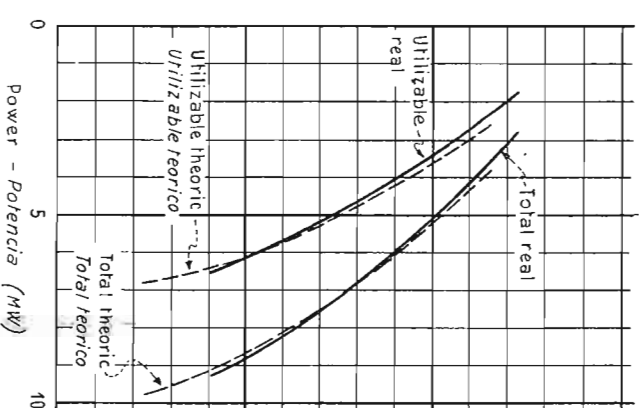


LEGEND - LEYENDA

- Possible faults
Fallas posibles
- Well
Pozo



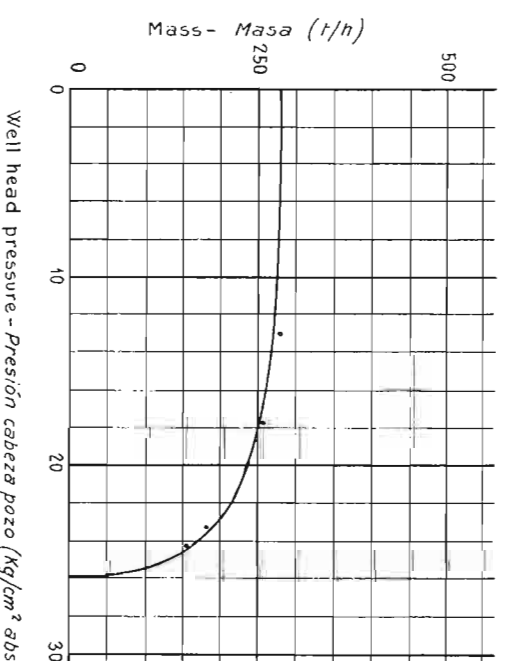
STEAM - VAPOR



The graph shows the relationship between Enthalpy - Entalpia (KJ/Kg) on the y-axis and Temperature (°C) on the x-axis. The y-axis ranges from 500 to 1000, and the x-axis ranges from 100 to 200. A single curve is plotted, showing a decreasing trend.

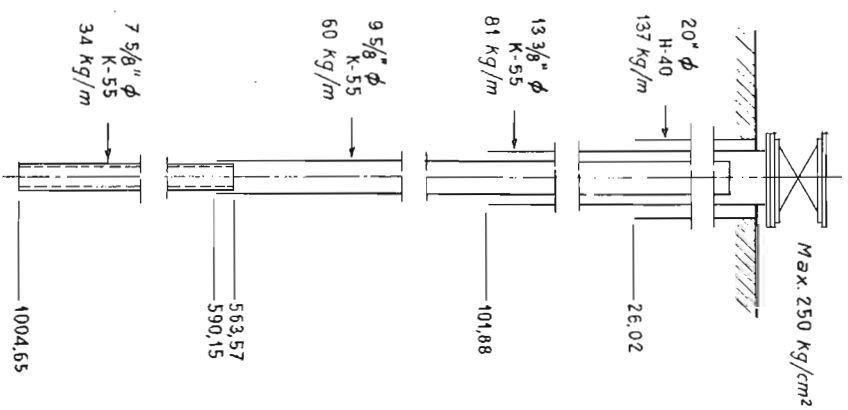
Temperature (°C)	Enthalpy - Entalpia (KJ/Kg)
100	~500
125	~600
150	~700
175	~800
200	~900

Corfo - Informe pozos n° 7, 10 y 11 por grupo mediciones - Dic. 1974

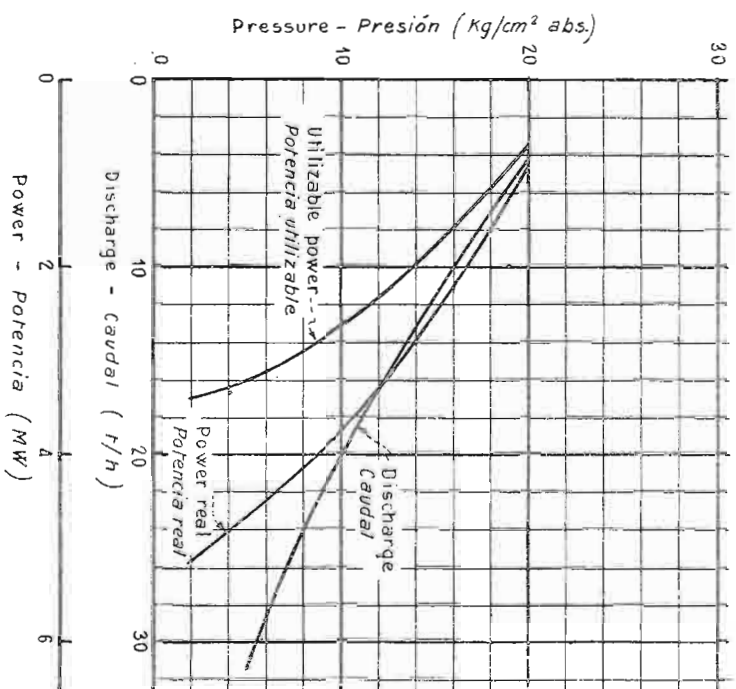


MIXTURE - MEZCLA

UNITED NATIONS - NACIONES UNIDAS	EXPLOITATION OF EL LATO GEOTHERMAL FIELD EXPLOITACION DEL CAMPO GEOTERMICO DE EL LATO	FEASIBILITY REPORT - INFORME DE FACTIBILIDAD	WELL 7 SURVEY RESULTS POZO 7 RESULTADOS DE LOS ENSAYOS	1010
1975	1975	1975	1975	1975

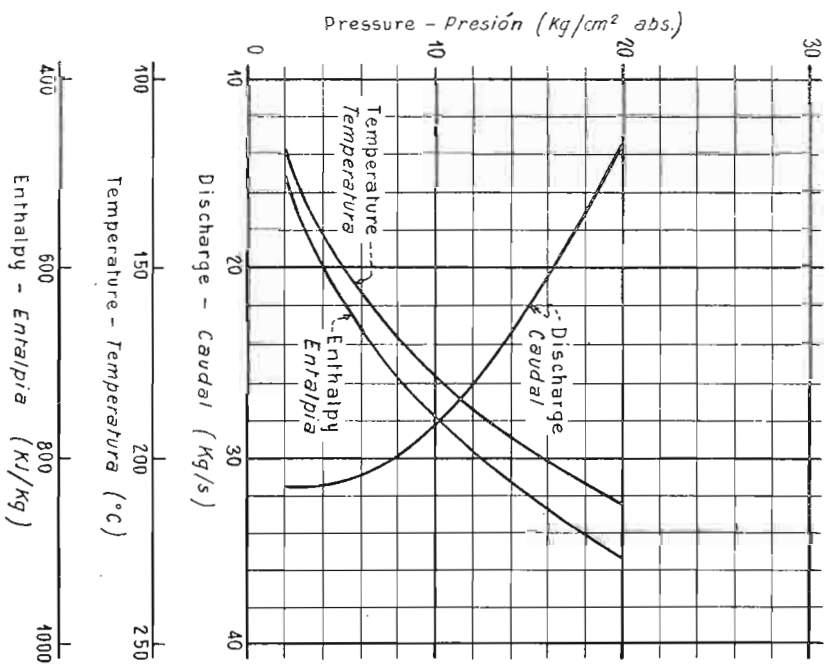


STEAM - VAPOR

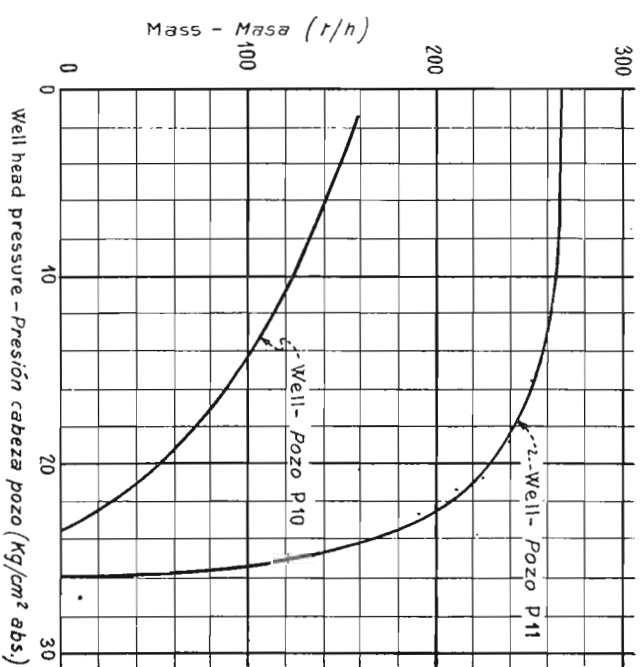


WELL - POZO P10

WATER - AGUA



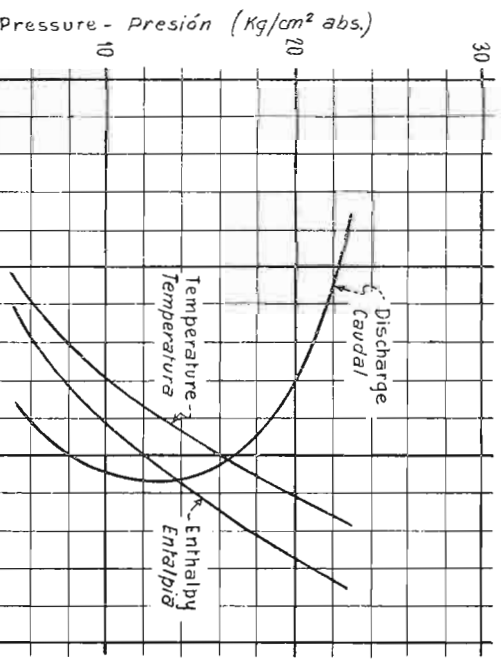
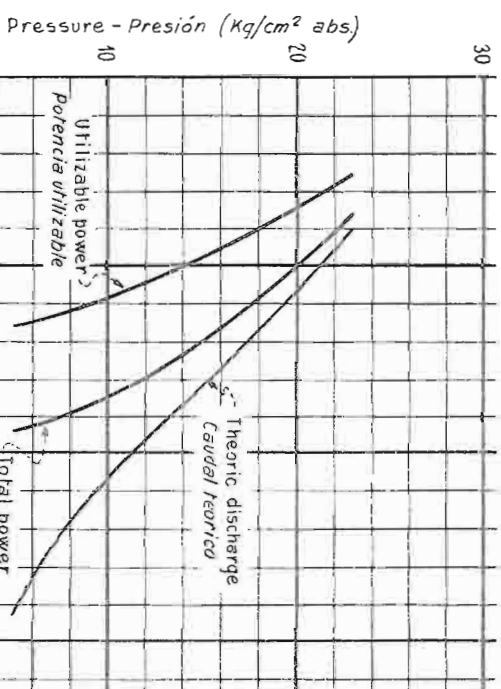
MIXTURE - MEZCLA



STEAM - VAPOR

WELL - POZO P11

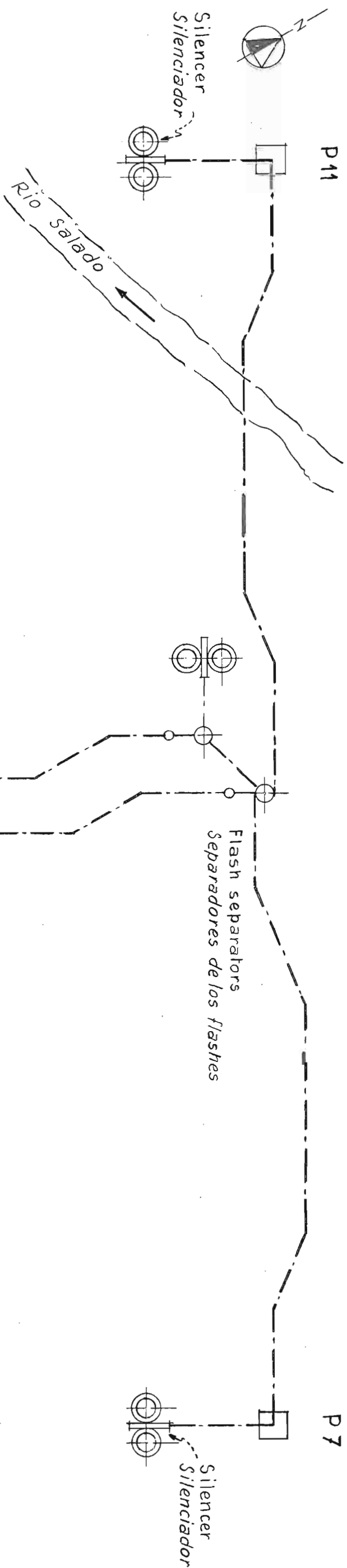
WATER - AGUA



SOURCE - FUENTE:

Corfo - Informe pozos n° 7, 10 y 11 por grupo mediciones - Dic. 1974

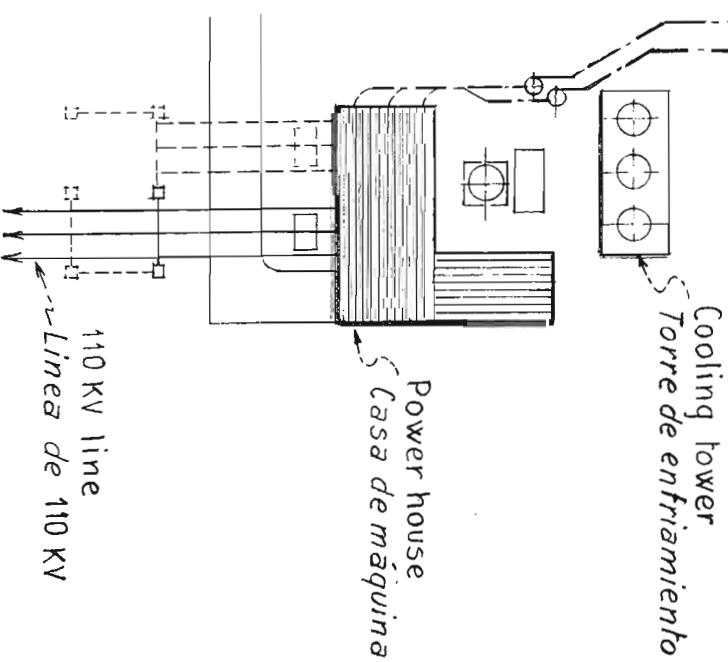
UNITED NATIONS - NACIONES UNIDAS			
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD			
EXPLORACION DEL CAMPO GEOTERMICO DE EL TATIO			
FEASIBILITY REPORT - INFORME DE FACTIBILIDAD			
WELLS 10 & 11 SURVEY RESULTS			
POZOS 10 Y 11 RESULTADOS DE			
LOS ENSAYOS			
DATE	BY	REVISED	DATE
1975	1975	1975	1975
G C I			
1011			



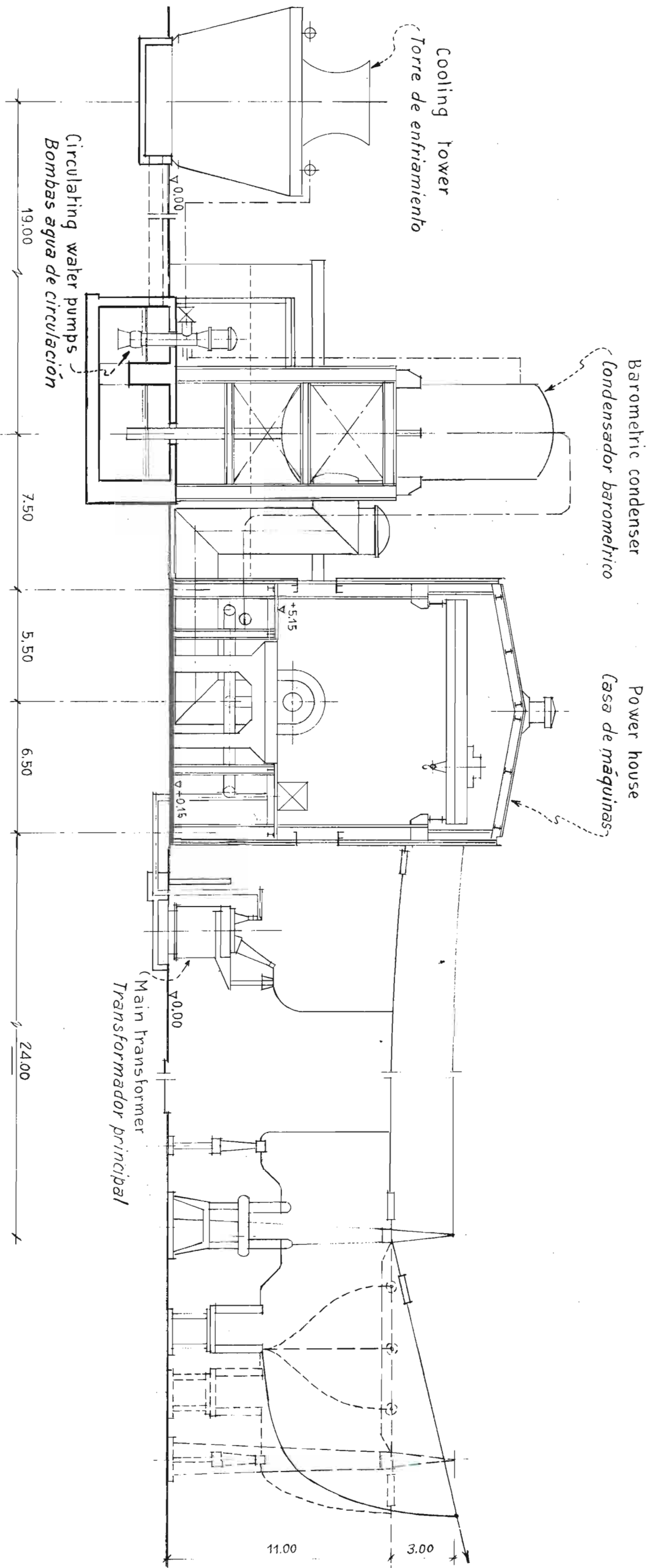
Well Pozo	P 11
Flow Caudal	261 t/h
Enthalpy Entalpia	272,7 Kcal/kg
Well head pressure Presión de cabeza	17,5 Kg/cm ²

Well Pozo	P 7
Flow Caudal	224 t/h
Enthalpy Entalpia	272,7 Kcal/kg
Well head pressure Presión de cabeza	17,5 Kg/cm ²

Power house Casa de máquinas	
1th flash pressure Presión de 1er flash	~ 5 Kg/cm ² (abs.)
2nd flash pressure Presión de 2do flash	~ 1 Kg/cm ² (abs.)
1th flash flow Caudal del 1er flash	~ 110 t/h
2nd flash flow Caudal del 2do flash	~ 40 t/h
Installed capacity Potencia instalada	17.500 KW



UNITED NATIONS - NACIONES UNIDAS	SCALE
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD	—
EXPLOTACION DEL CAMPO GEOTERMICO DE EL TATIO	
FEASIBILITY REPORT - INFORME DE FACTIBILIDAD	
GEOTHERMAL PLANT LOCATION	GC 1
LOCALIZACION DE LA PLANTA GEOTERMICA	1012
DRAWN	DATE
CHECKED	1975
APPROVED	FEB. 1975
	millon 1000
	etc



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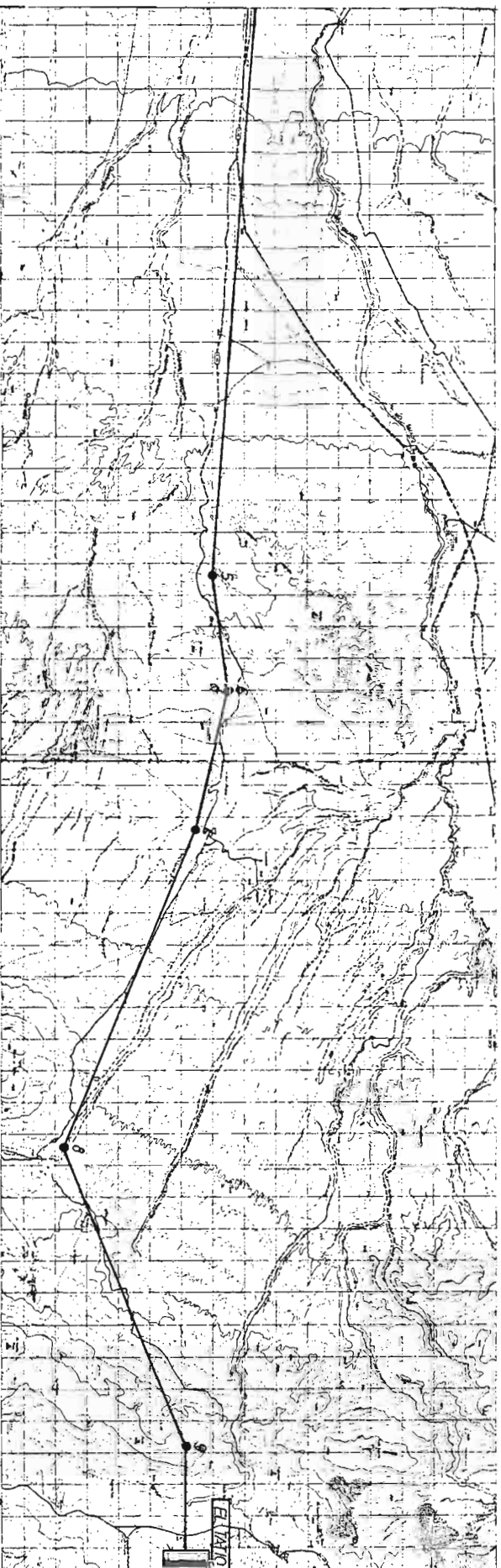
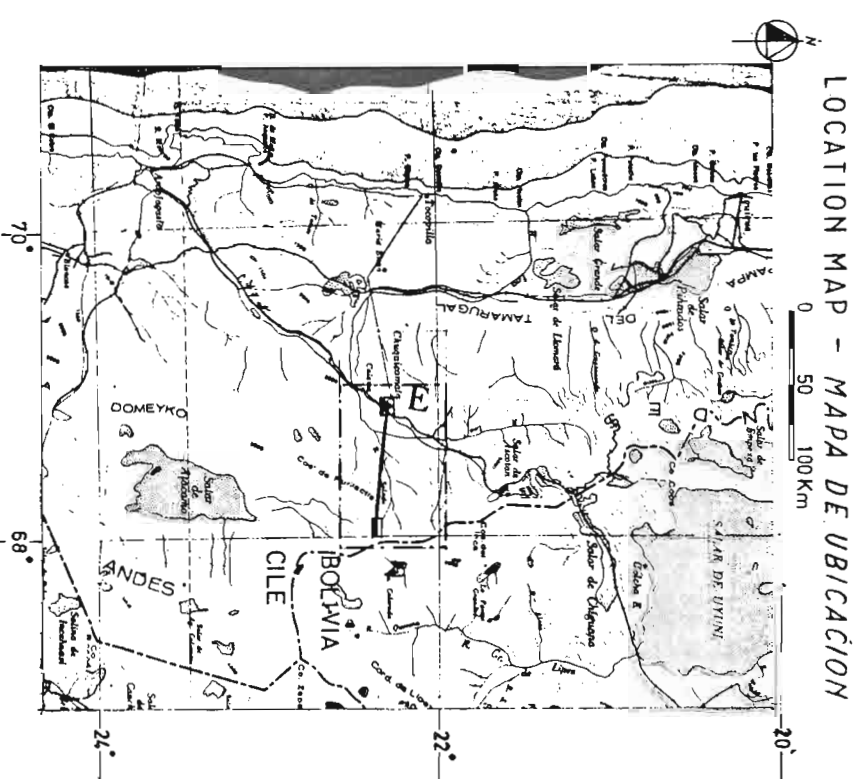
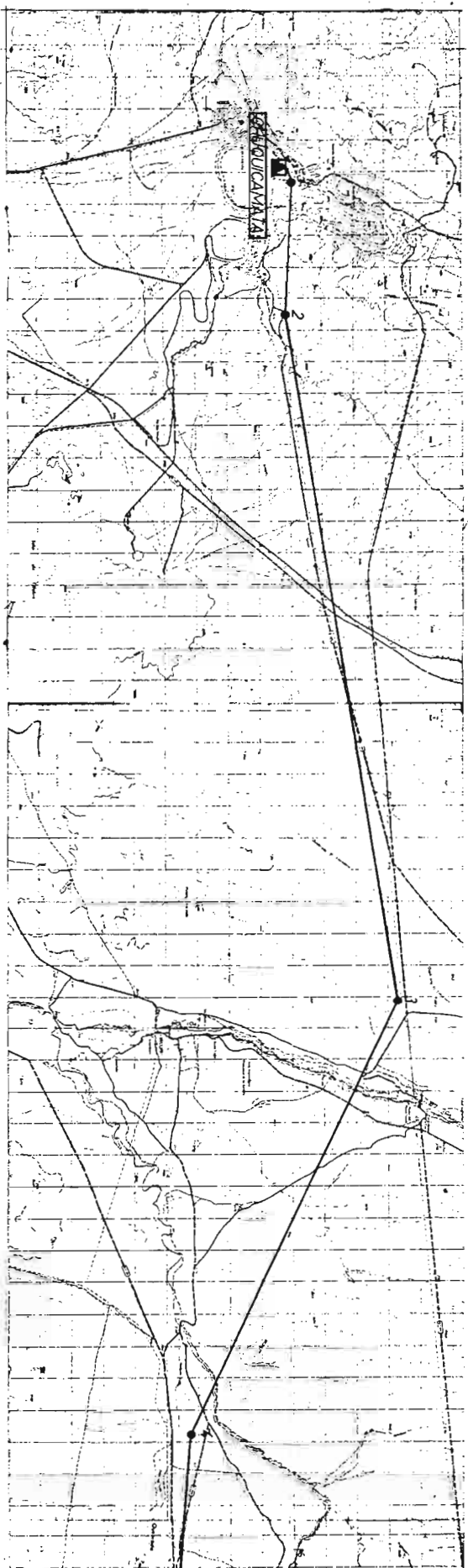
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UNITED NATIONS - NACIONES UNIDAS
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD
EXPLOTACION DEL CAMPO GEOTERMICO DE EL TATIO

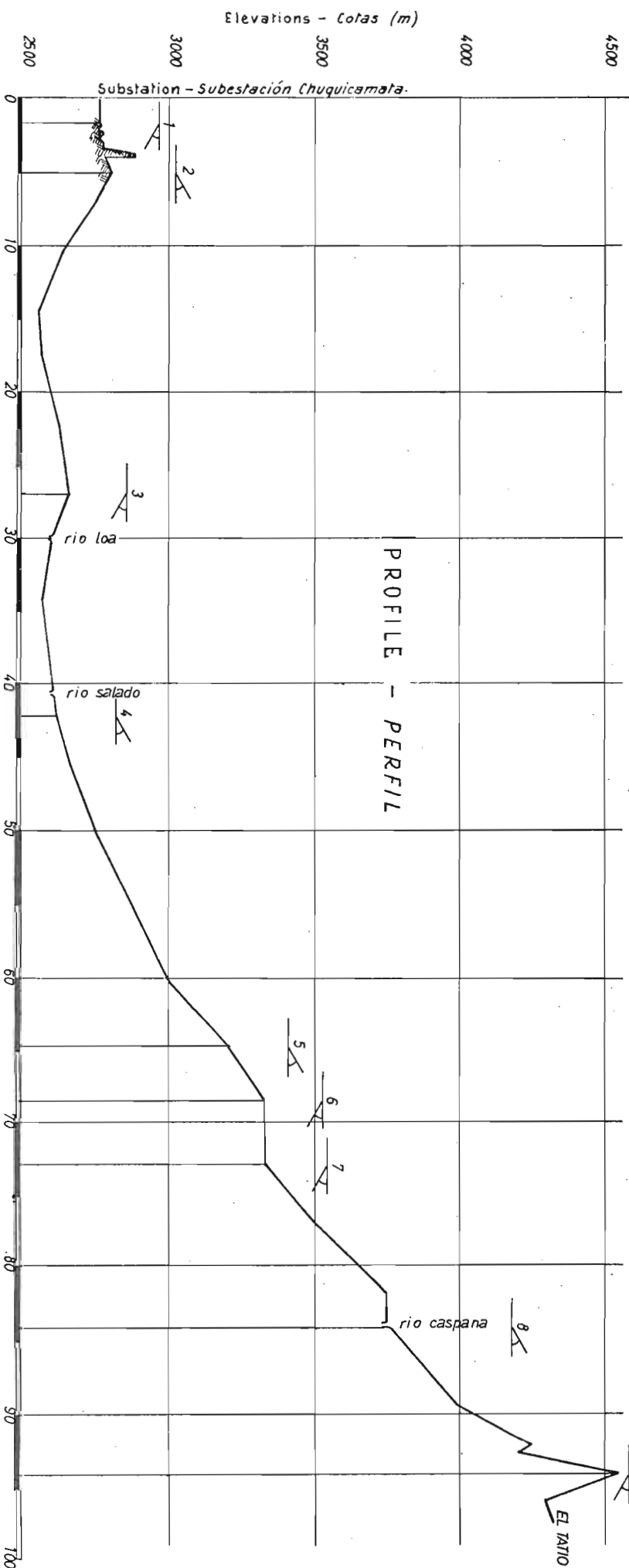
FEASIBILITY REPORT - INFORME DE FACTIBILIDAD
GEOTHERMAL PLANT: PROFILE
PLANTA GEOTERMICA: PERFIL

GCI
1015

PLAN - PLANIMETRIA



PROFILE - PERFIL



LEGEND - LEYENDA

- Geothermal
Planta geotermica
- Substation
Subestación
- 110 KV line
Línea 110 KV

UNITED NATIONS = NACIONES UNIDAS				1975	
EXPLOITATION OF EL TATIO GEOTHERMAL FIELD				1975	
EXPLOTACION DEL CAMPO GEOTERMICO DE EL TATIO				1975	
FEASIBILITY REPORT - INFORME DE FACTIBILIDAD				1975	
110 KV TRANSMISSION LINE LAYOUT				1975	
CHUQUICAMATA EL TATIO				1975	
LINEA 110 KV TRAZADO				1975	
GCI				1016	
elc				1016	