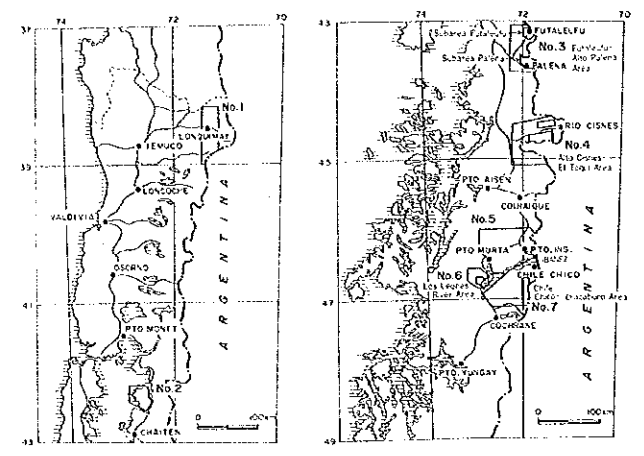


THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
PHASE II

LOCATION MAP OF MINERAL INDICATION AND ALTERATION ZONE
OF ALTO CISNES-EL TOQUI



FEBRUARY 1991

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

Scale 1 : 50,000

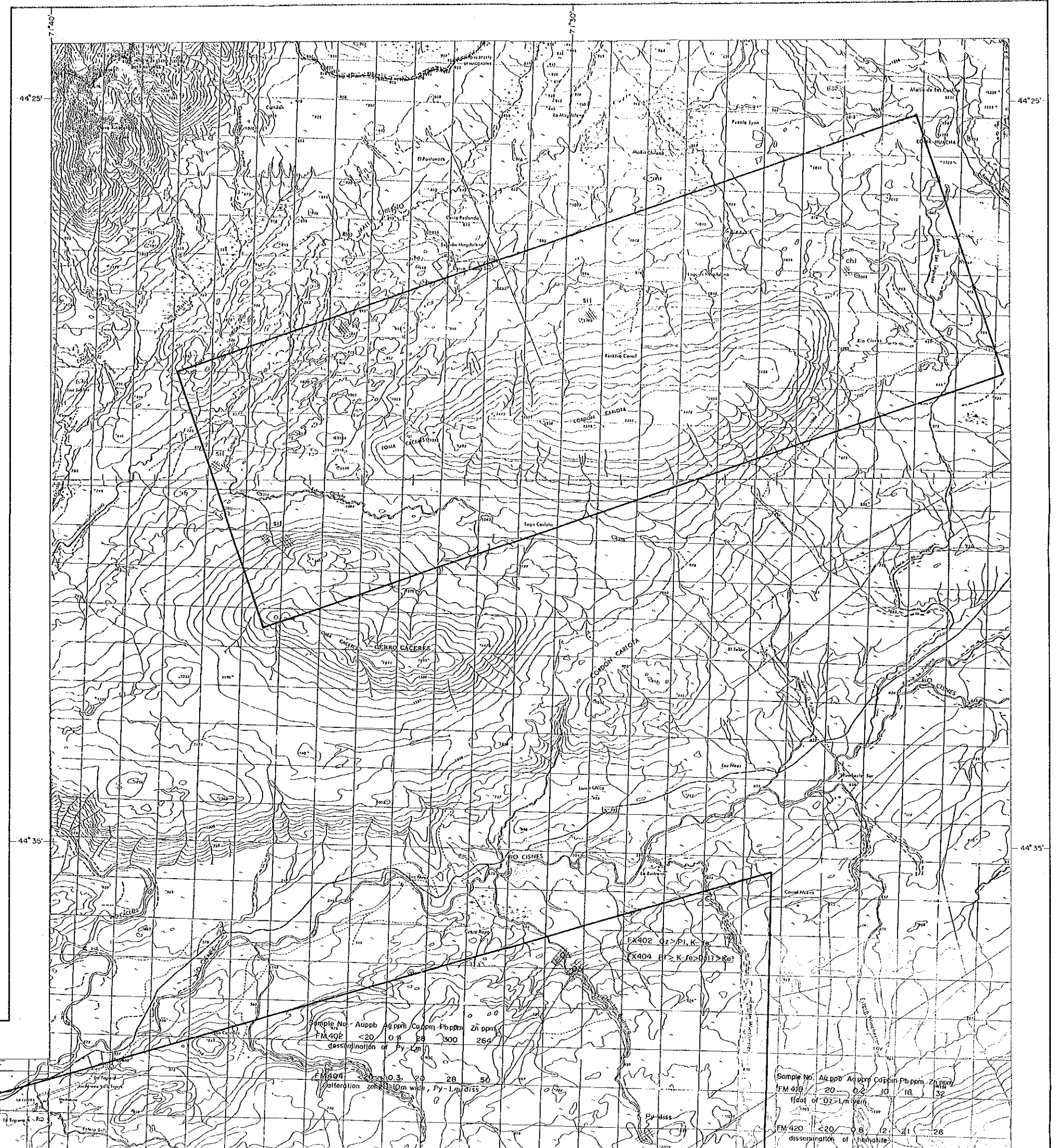


LEGEND

- Chemical analysis of ore sample
- △ X-ray diffraction analysis
- ↑ vein, veinlet
- sheared zone
- ▨ Alteration zone

Abbreviation

- Oz : quartz, Py : pyrite, Cp : chalcopyrite, Po : pyrrothite
- Sp : sphalerite, Gn : galena, Spe : specularite
- Lm : limonite, Mg : magnetite, w : weak
- diss : dissemination, sto : stockwork
- sil : silicification, arg : argillization
- Pl : plagioclase, K-fe : K-feldspar, Chl : chlorite
- Ka : kaolinite, Cal : calcite, Ser : sericite
- La : laumontite, Dol : dolomite, Ho : hornblende

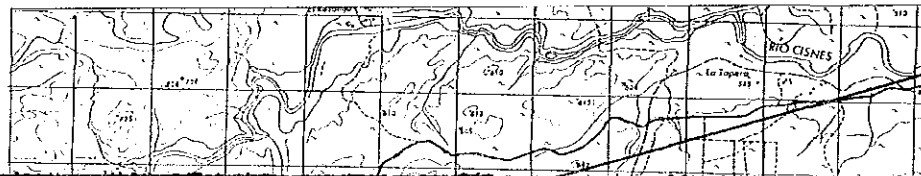


Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 402	<20	0.8	28	300	260
FM 404	<20	0.3	20	28	90

alteration zone: sil, arg, w, Py-Lm, diss

Sample No.	Au ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 419	<20	0.2	10	18	32
FM 420	<20	0.8	2	21	26

dissertation of hematite

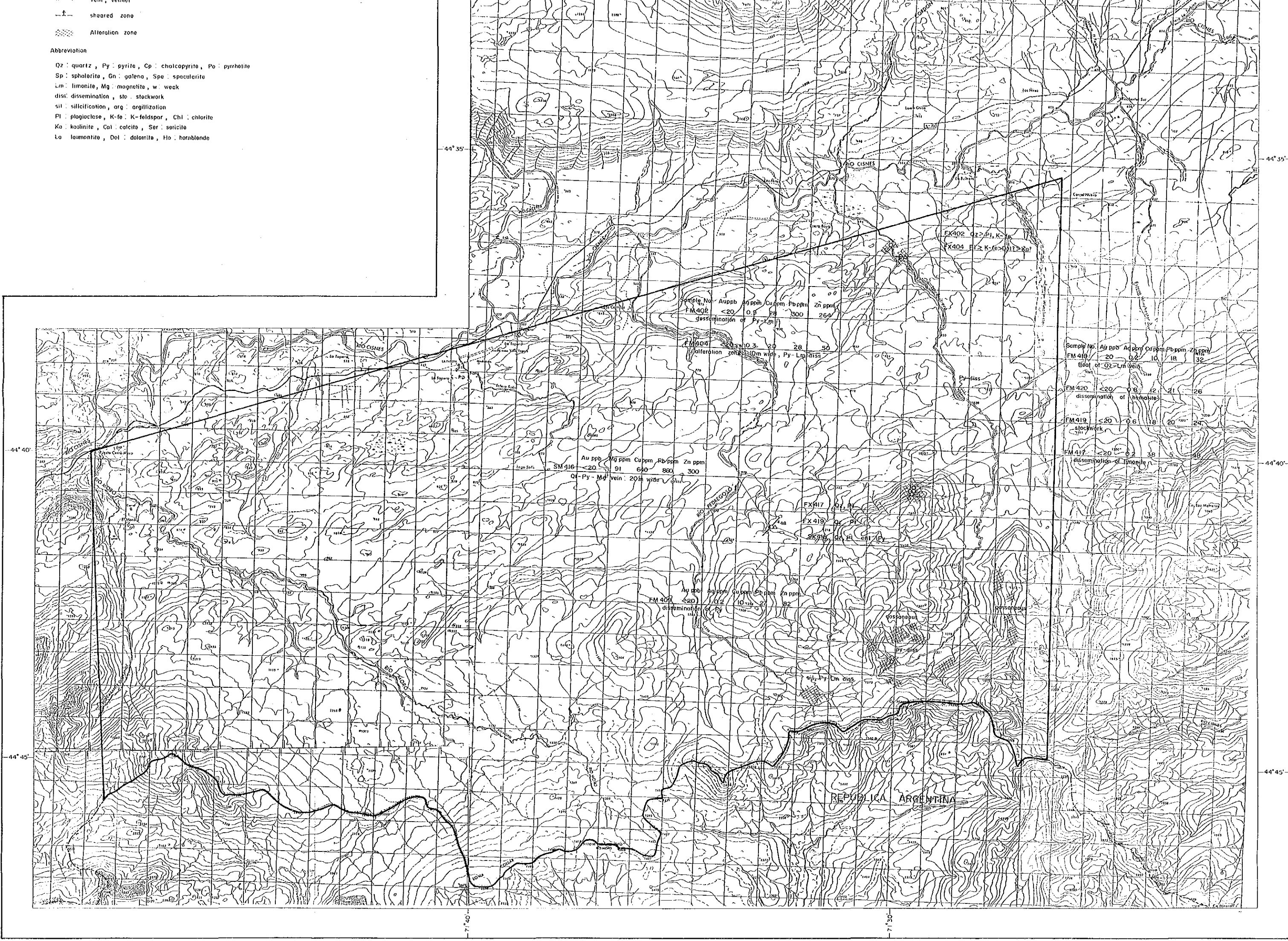


sheared zone

Alteration zone

Abbreviation

- Qz : quartz, Py : pyrite, Cp : chalcopyrite, Po : pyrrhoite
- Sp : sphalerite, Gn : galena, Spe : specularite
- Lm : limonite, Mg : magnetite, w : weak
- diss : dissemination, stc : stockwork
- sil : silicification, arg : argillization
- Pl : plagioclase, K-fe : K-feldspar, Chi : chlorite
- Ka : kaolinite, Cal : calcite, Ser : sericite
- Lo : laumontite, Dol : dolomite, Ho : hornblende



Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 402	<20	0.3	39	300	264

dissemination of Py-Lm

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 404	<20	0.3	20	28	50

alteration zone 10m wide, Py-Lm

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
SM 416	<20	91	640	880	300

Qz-Py-Mg vein, 20ft wide

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 419	<20	0.2	10	18	32

floor of Qz-Lm vein

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 420	<20	0.8	12	41	26

dissemination of sphalerite

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 419	<20	0.6	18	20	24

stockwork

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 417	<20	0.2	38	5	49

dissemination of limonite

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FM 402	<20	0.2	10	27	82

dissemination of Py

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FX 417	<20	0.1	11	11	11

Py-Lm

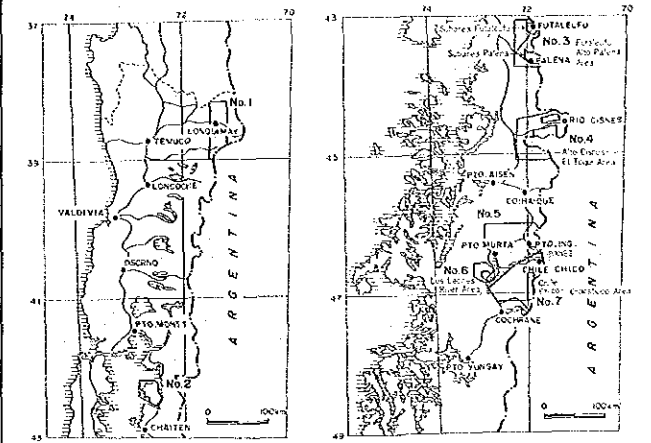
Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
FX 419	<20	0.1	21	21	21

Py-Lm

REPUBLICA ARGENTINA

THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN
PHASE II

LOCATION MAP OF MINERAL INDICATION AND ALTERATION ZONE
OF LOS LEONES RIVER AREA



□ PHASE I
□ PHASE II

FEBRUARY 1991

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METAL MINING AGENCY OF JAPAN

Scale 1 : 50,000

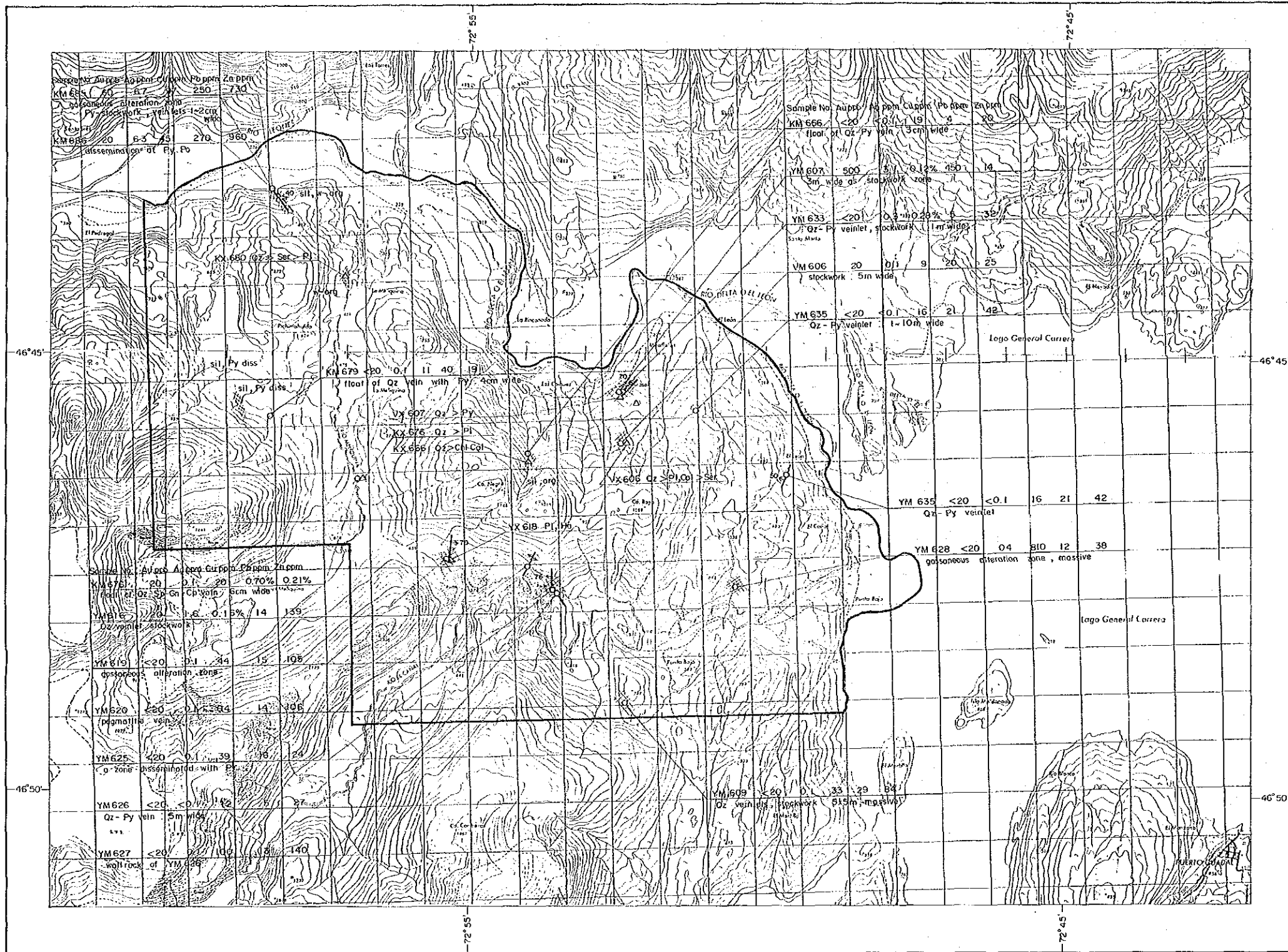


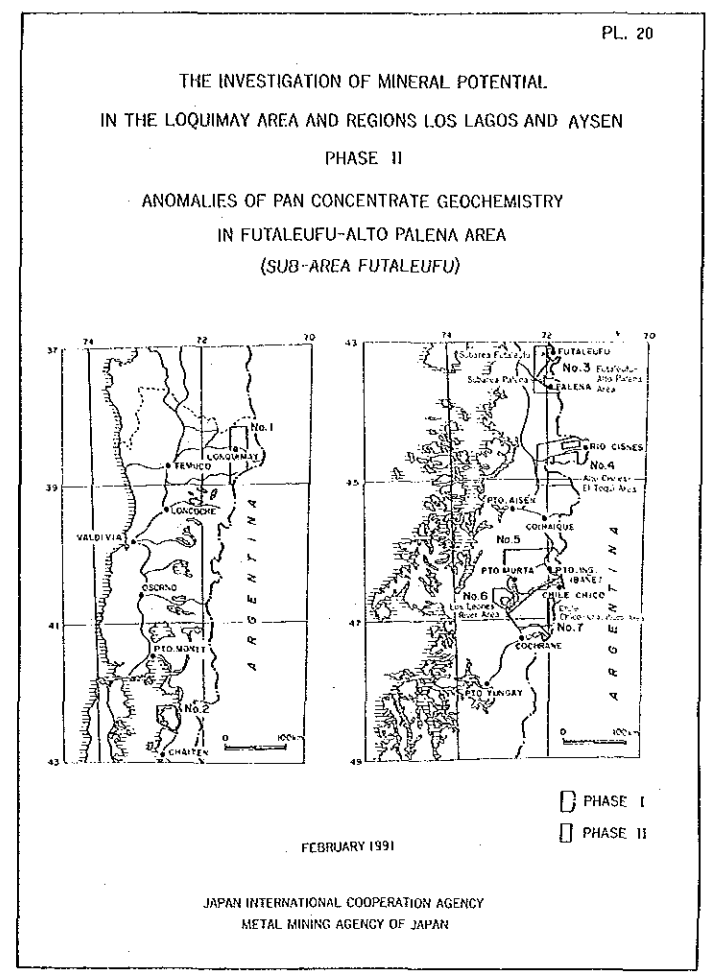
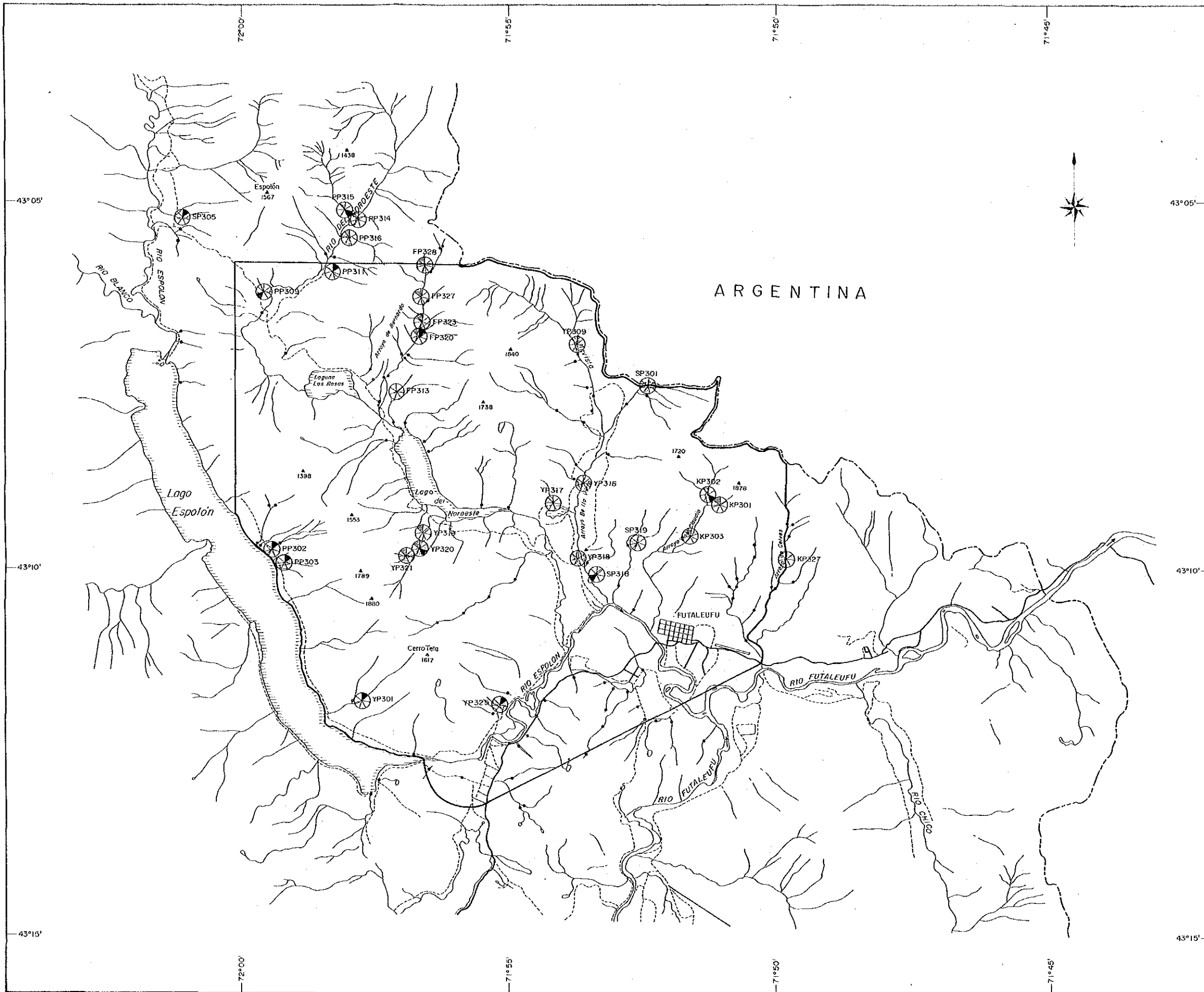
LEGEND

- Chemical analysis of ore sample
- △ X-ray diffraction analysis
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 La : laumontite, Dol : dolomite, Ho : hornblende





Scale 1 : 50,000

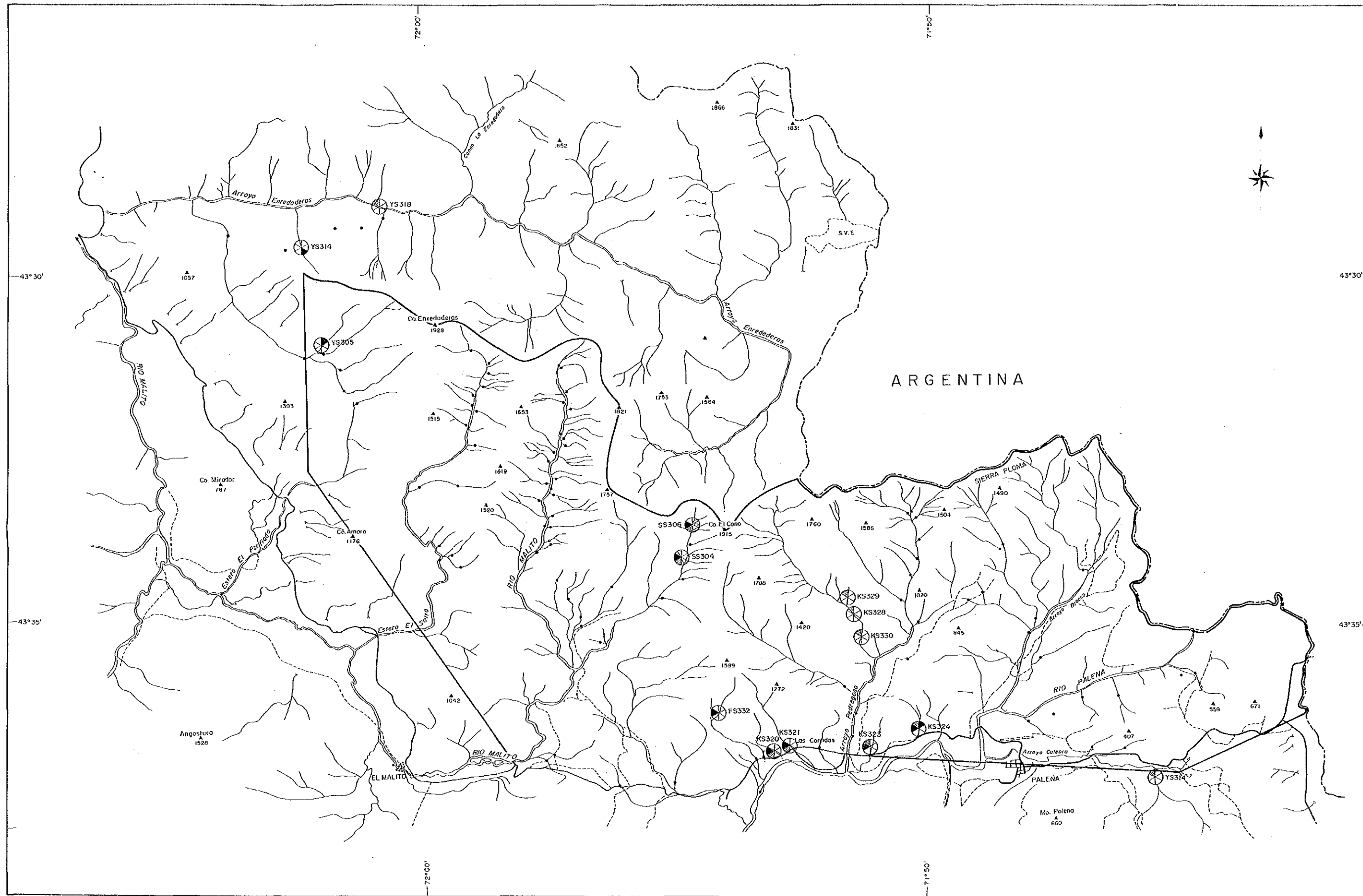
LEGEND

Pan Concentrate Samples

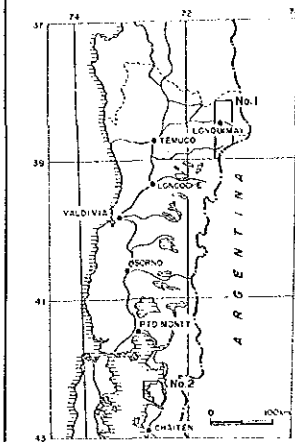
		Threshold ≤
		Threshold >

Ni ≥ 378 ppb
 Ag ≥ 1.7 ppb
 Cu ≥ 291.1 ppb
 Pb ≥ 152 ppb
 Zn ≥ 252 ppb
 Mo ≥ 5 ppb
 As ≥ 14 ppb

Survey Area



THE INVESTIGATION
 IN THE LOQUIMAY AREA AND
 ANOMALIES OF STREAM
 IN FUTALEUFU
 (SUB-AREA)



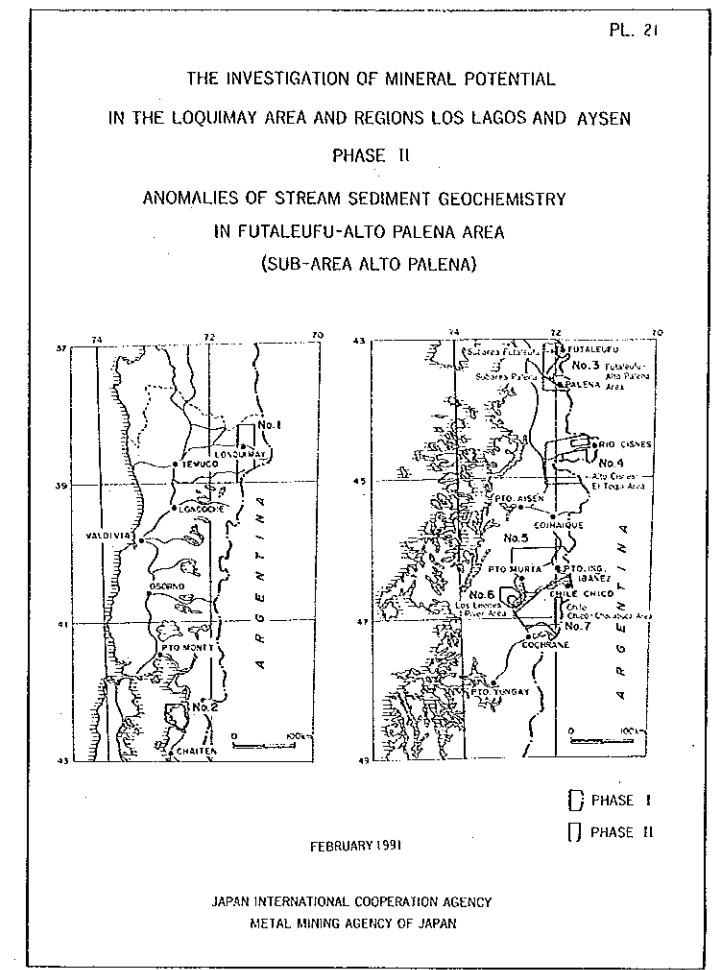
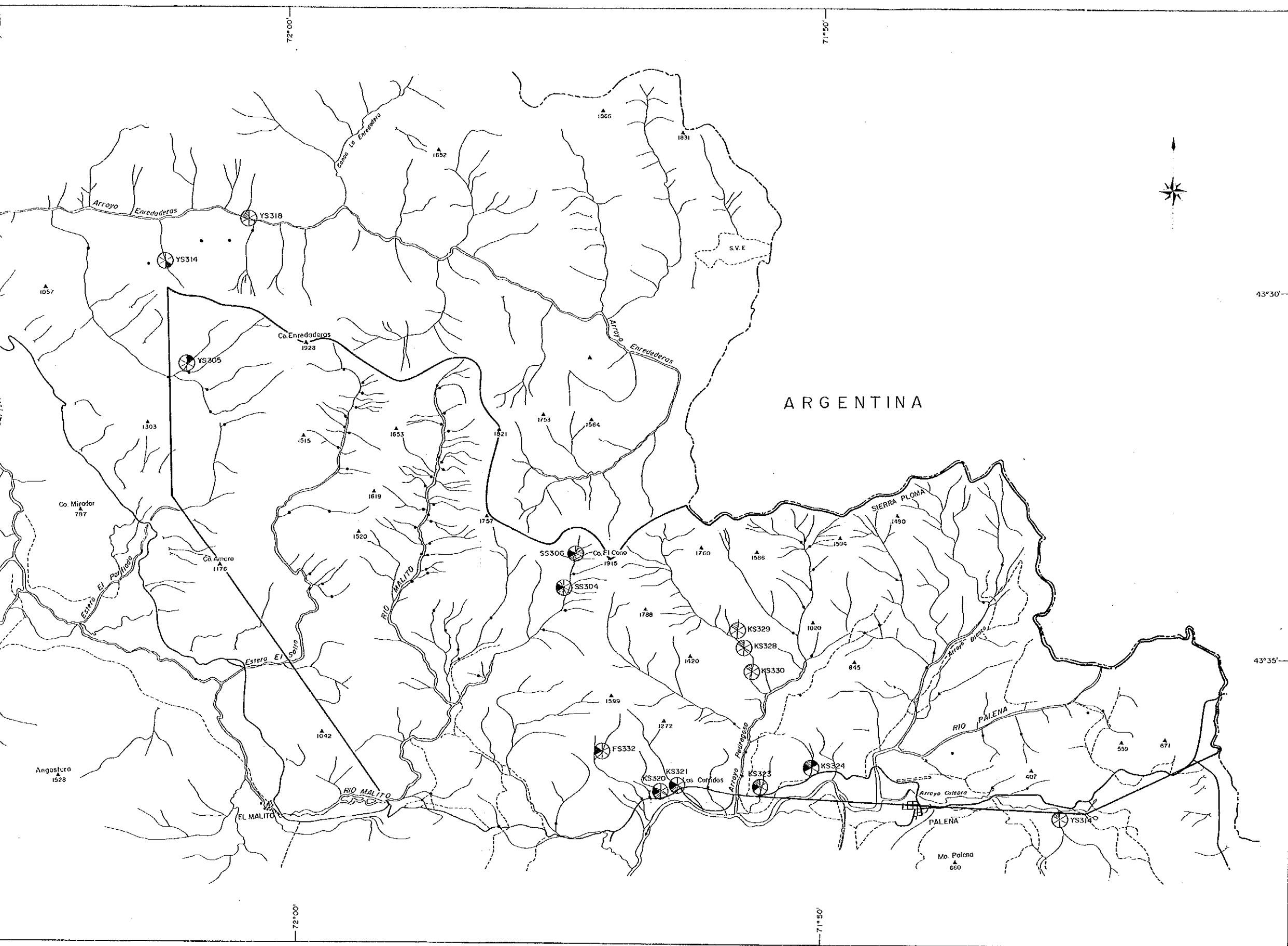
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 METAL MINING

LEGEND

Stream Sediment Sample

Y-22	Mu ± 11 ppb
	Ag ± 0.15 ppb
	Cu ± 70 ppb
	Pb ± 17 ppb
	Zn ± 165 ppb
	As ± 13 ppb

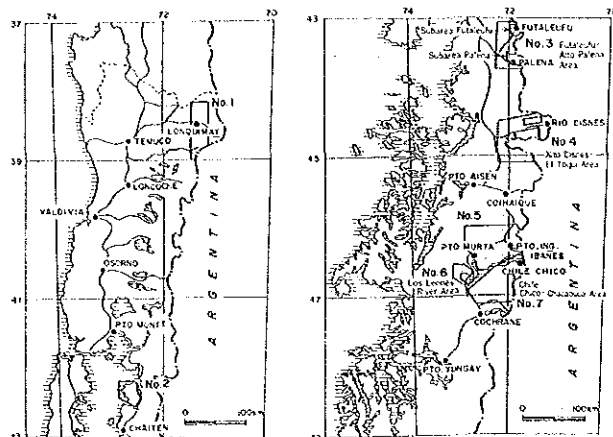
Survey Area



LEGEND

- Stream Sediment Samples
- Au > 11 ppb
 - Ag > 0.16 ppa
 - Cu > 70 ppa
 - Pb > 47 ppa
 - Zn > 165 ppa
 - As > 13 ppa
- Survey Area

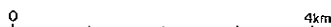
THE INVESTIGATION OF MINERAL POTENTIAL
 IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
 PHASE II
 ANOMALIES OF STREAM SEDIMENT GEOCHEMISTRY
 IN ALTO CISNES-EL TOQUI AREA



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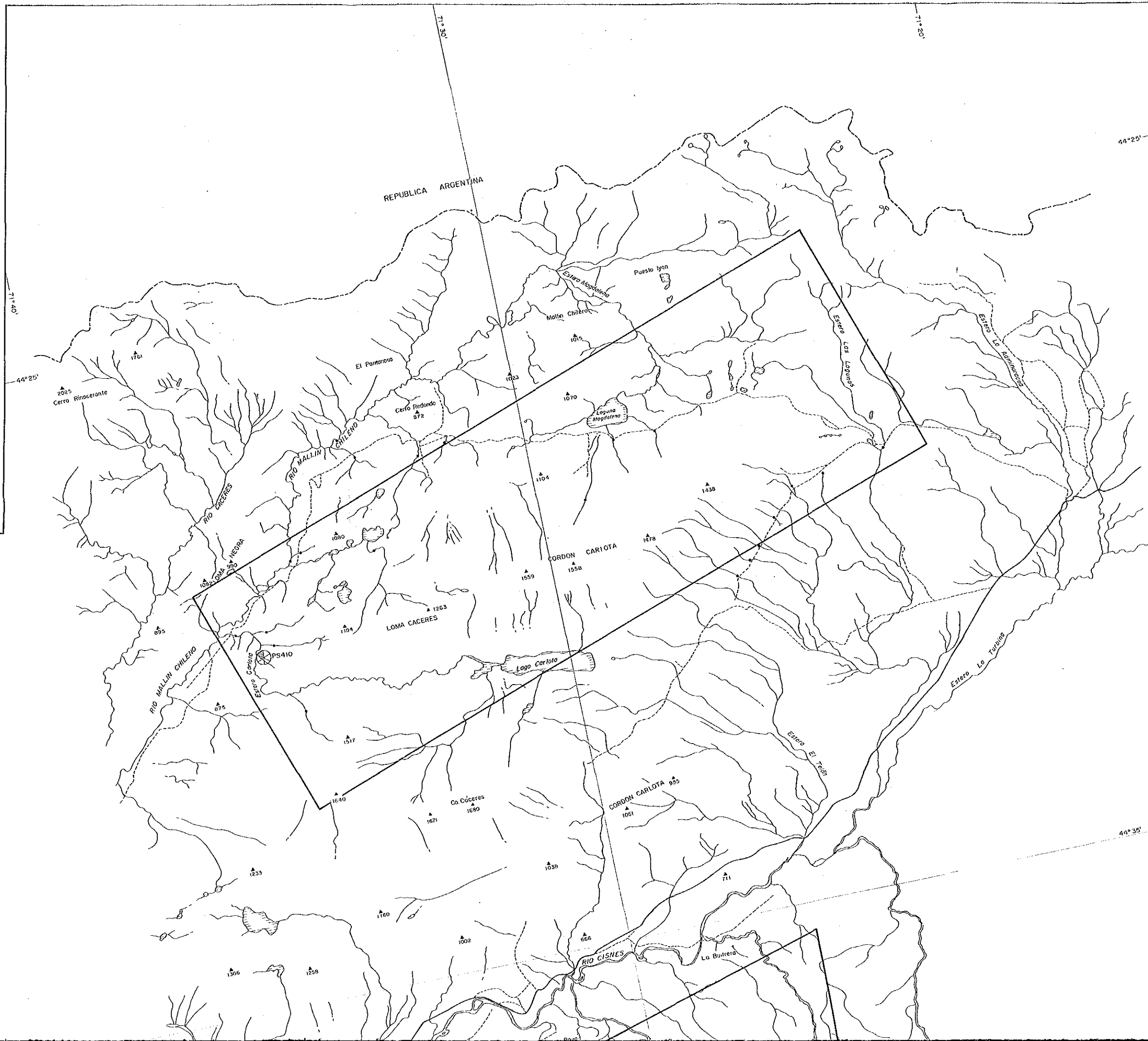
LEGEND


Stream Sediment Samples

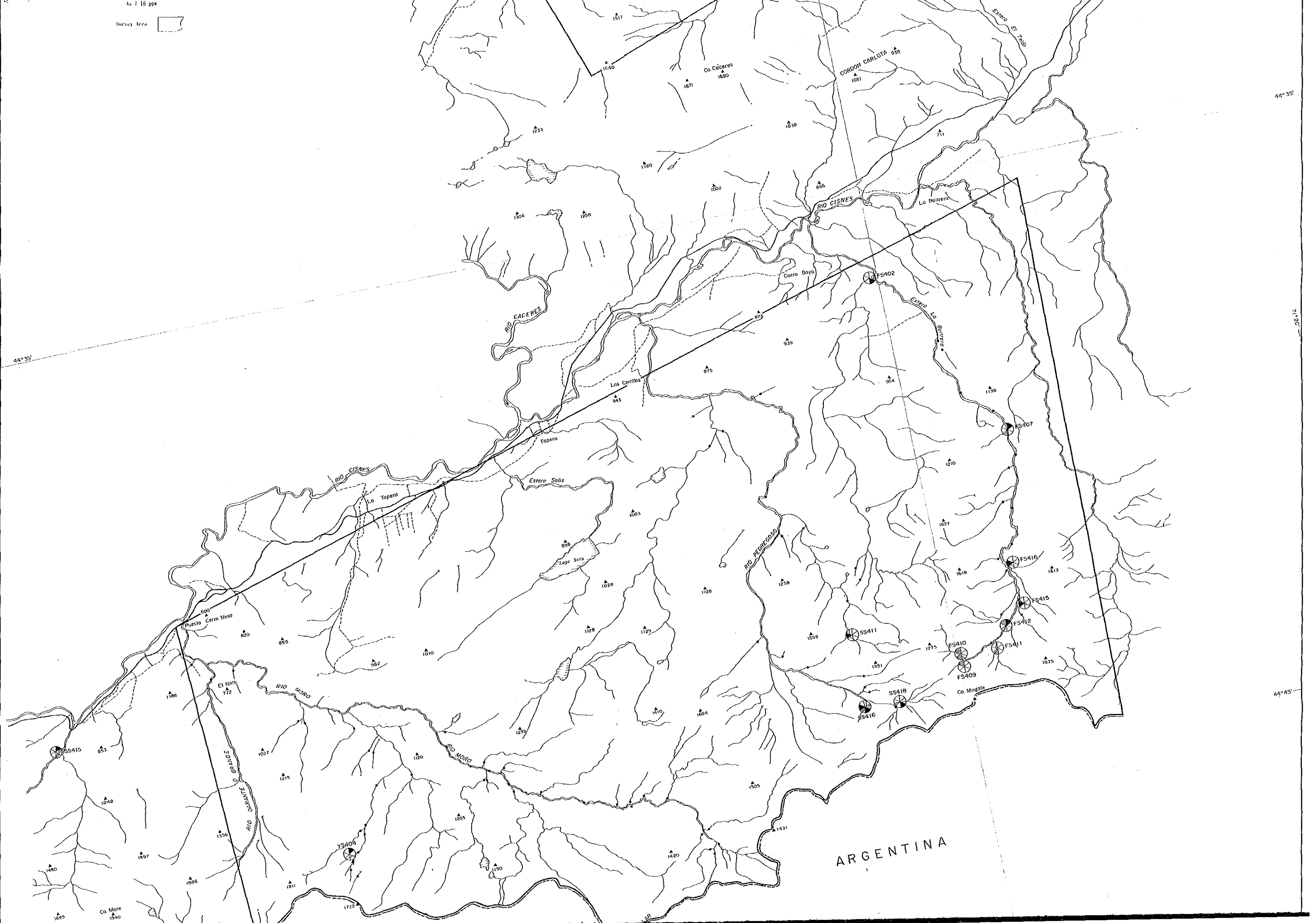


- X-Zn Au ≥ 7.6 ppb
- Ag ≥ 0.15 ppb
- Cu ≥ 36 ppb
- Pb ≥ 23 ppb
- Zn ≥ 105 ppb
- As ≥ 15 ppb

Survey Area



Survey Area 



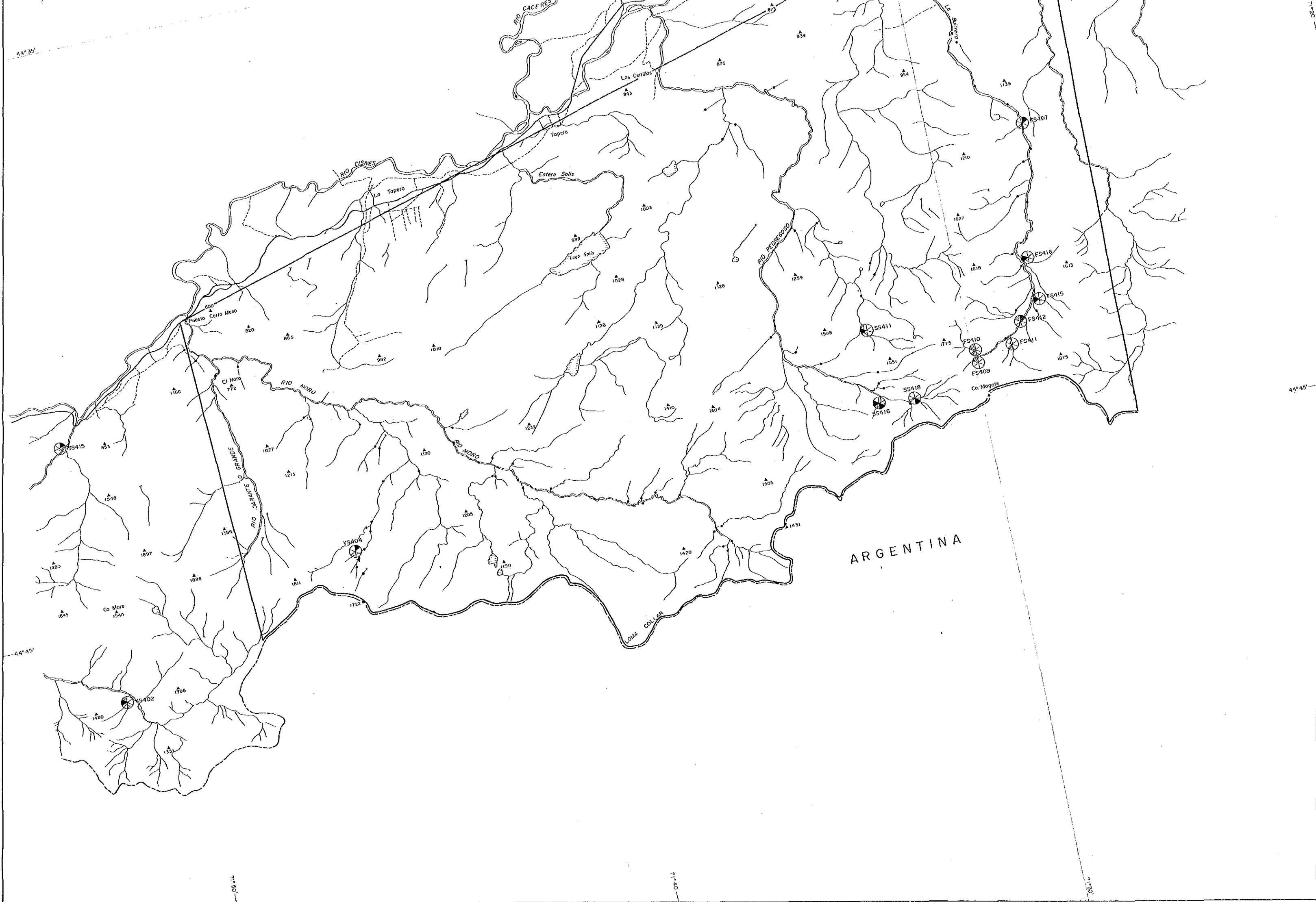
44°35'

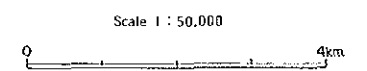
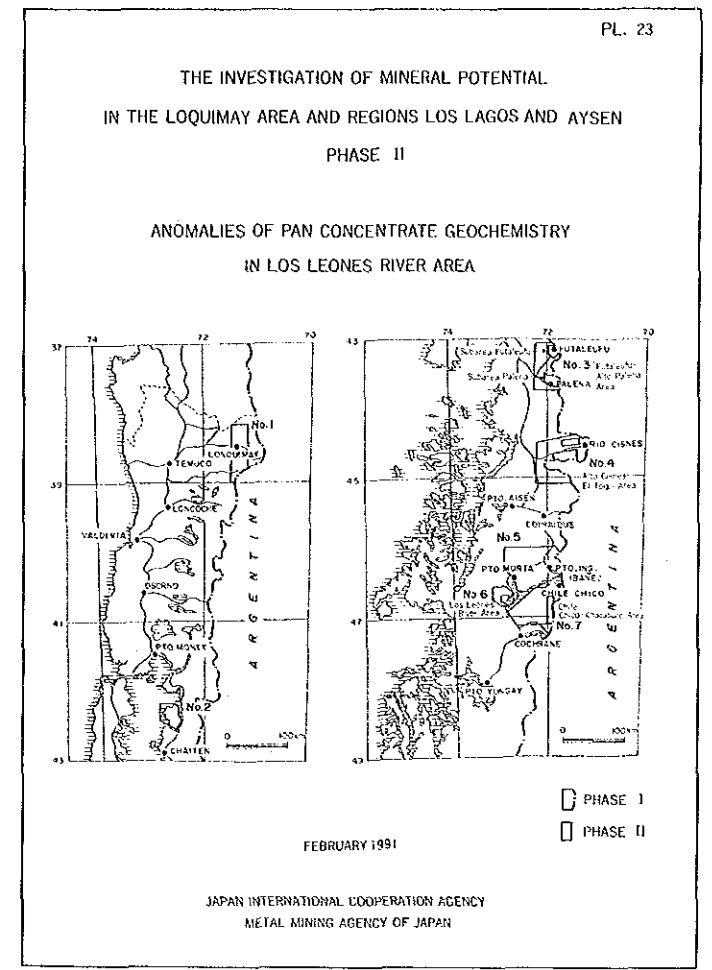
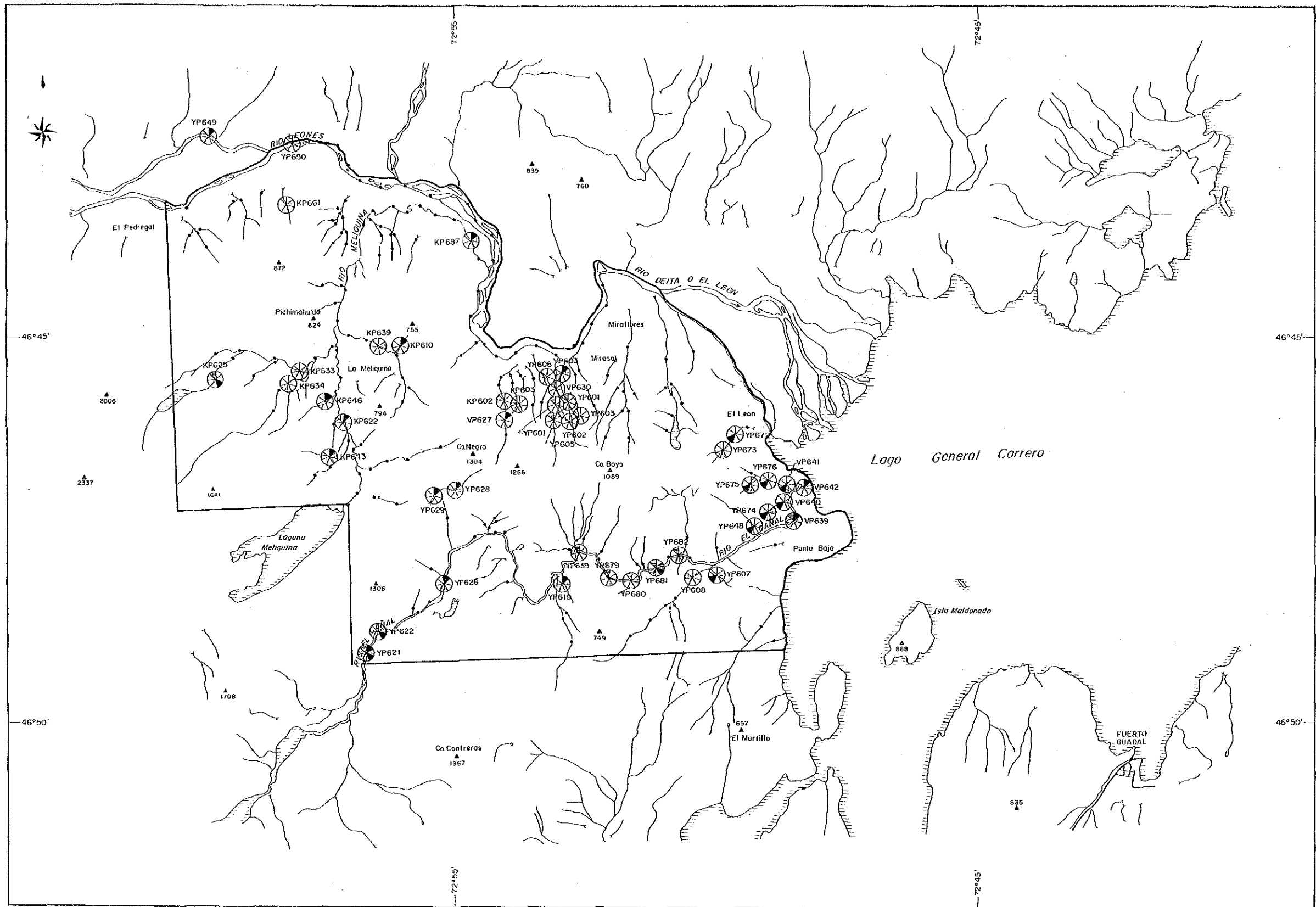
71°20'

44°35'

44°45'

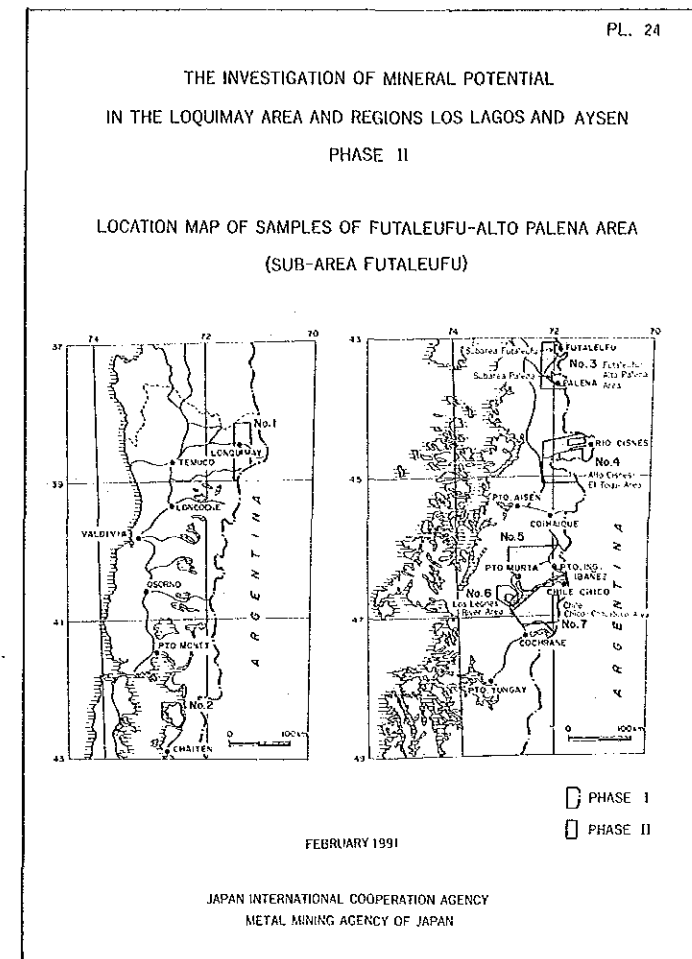
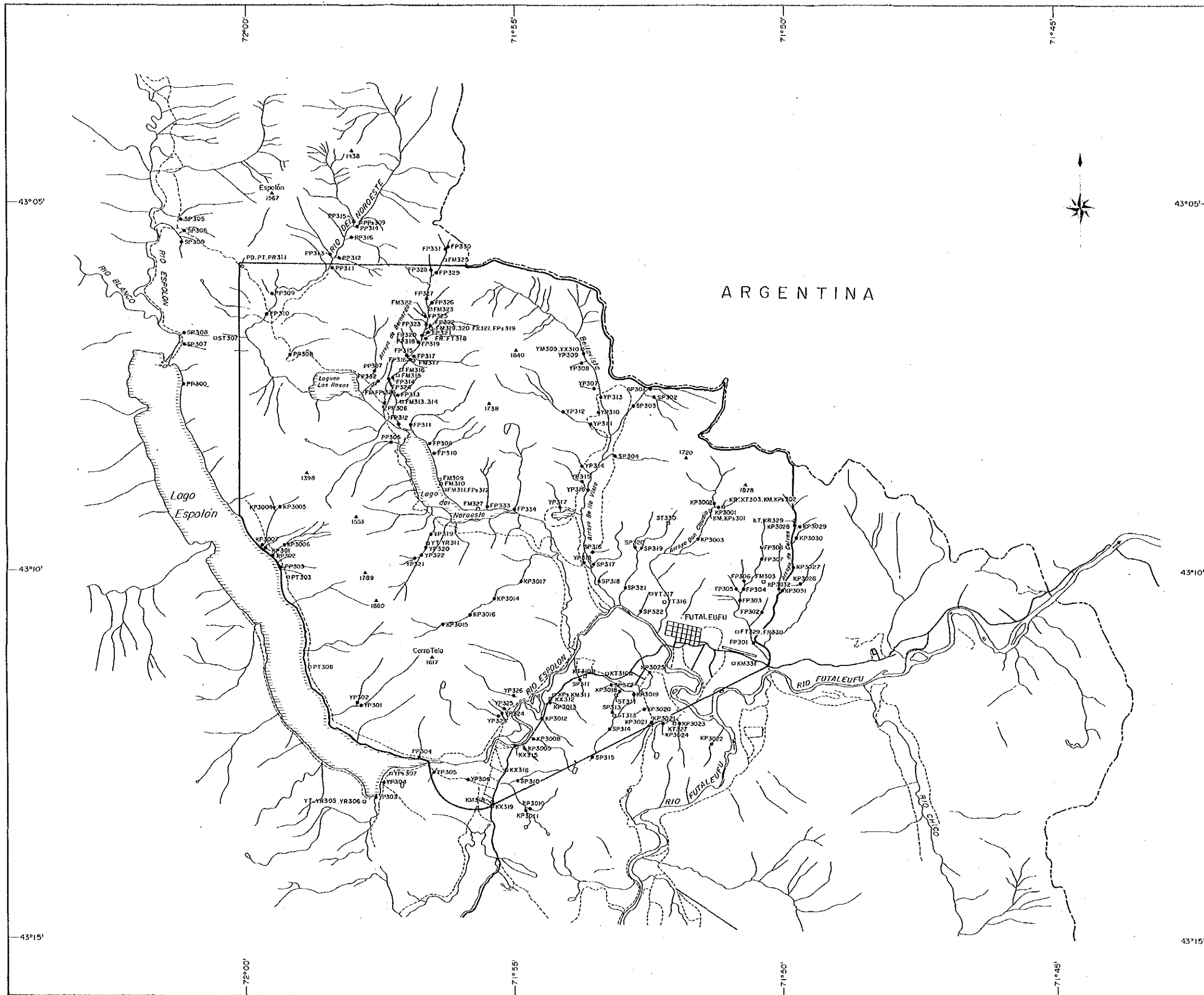
ARGENTINA





LEGEND

- Pan Concentrate Samples
- | | |
|--|-------------|
| | Threshold < |
| | Threshold > |
- | | |
|----|-----------|
| Ag | ≥ 170 ppb |
| Cu | ≥ 0.5 ppa |
| Pb | ≥ 93 ppa |
| Zn | ≥ 27 ppa |
| Mo | ≥ 230 ppa |
| As | ≥ 2 ppa |
| As | ≥ 58 ppa |
- Survey Area

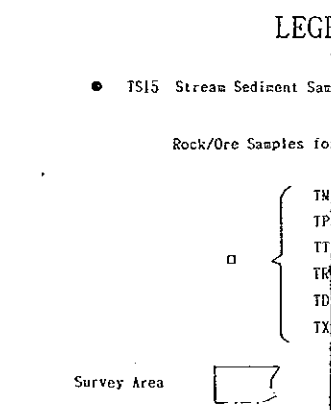
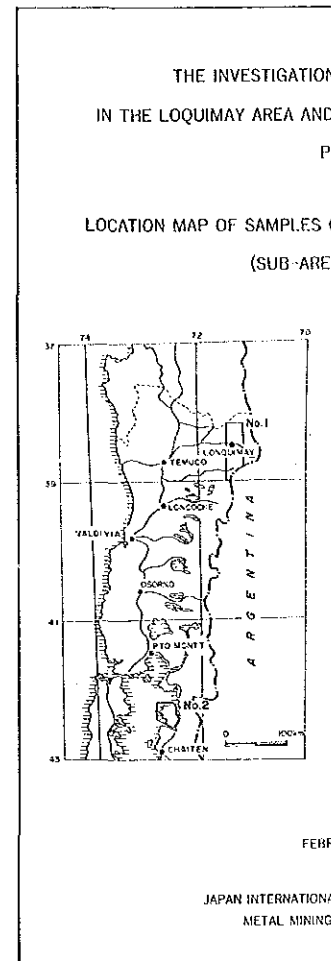
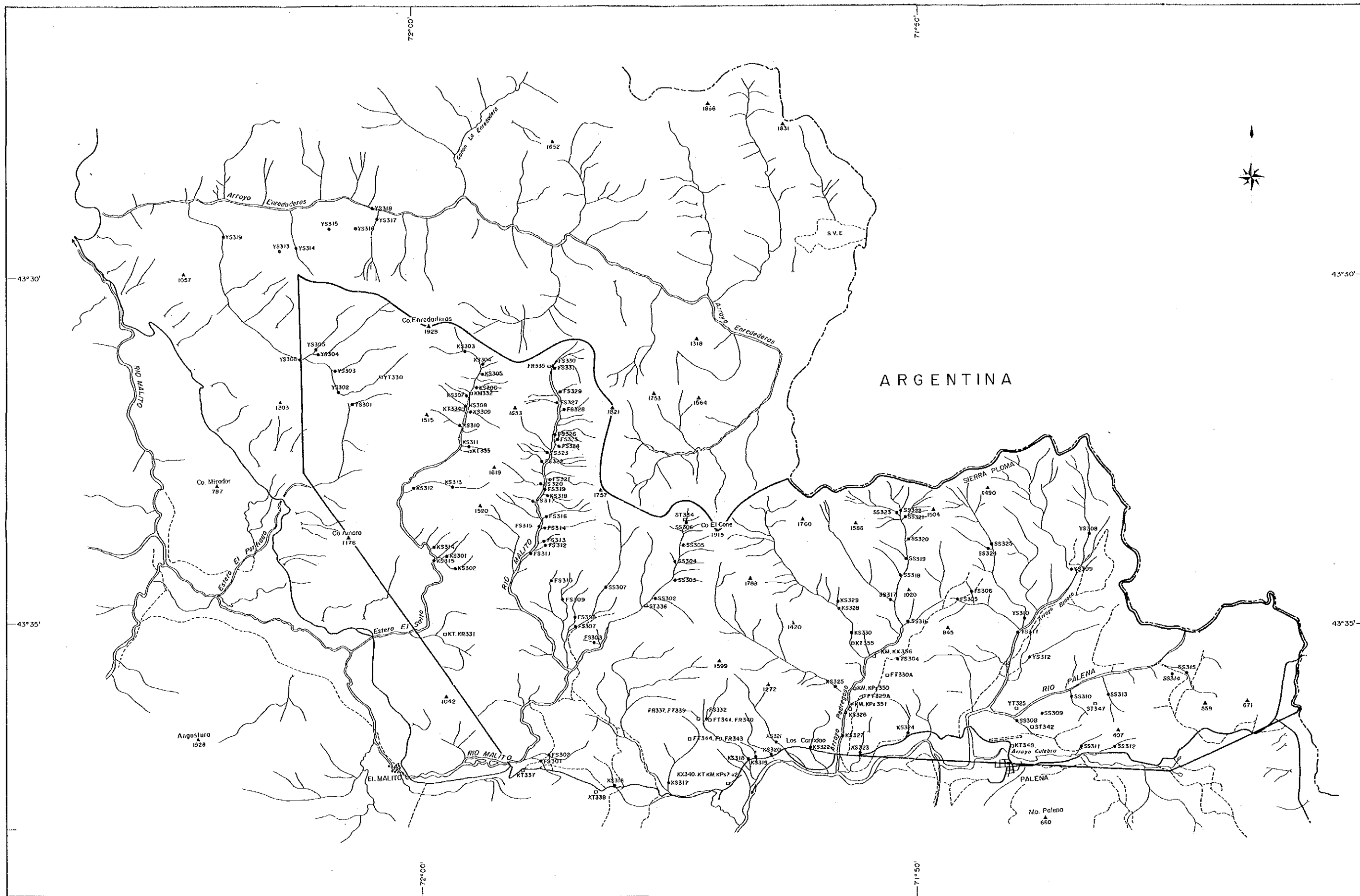


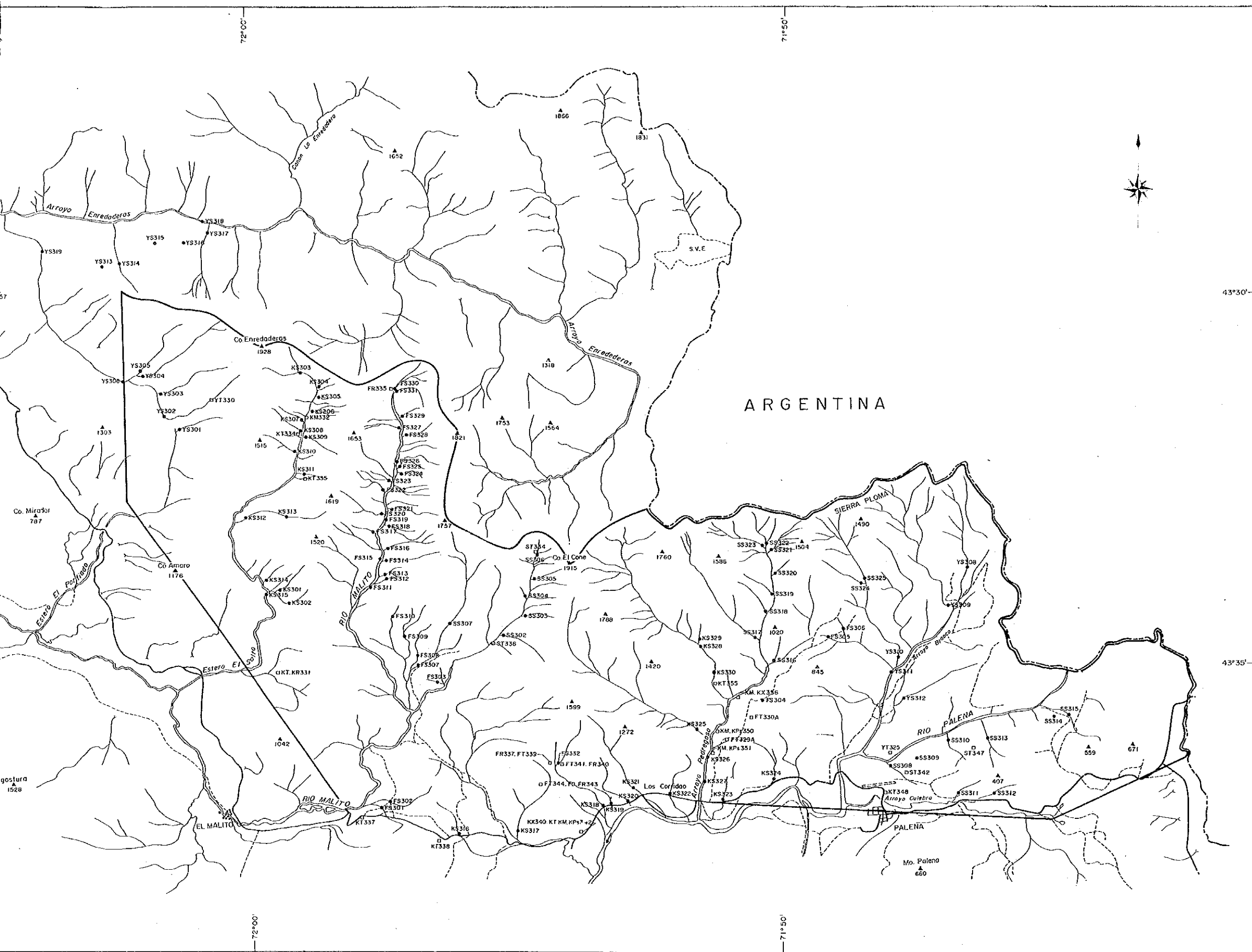
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LEGEND

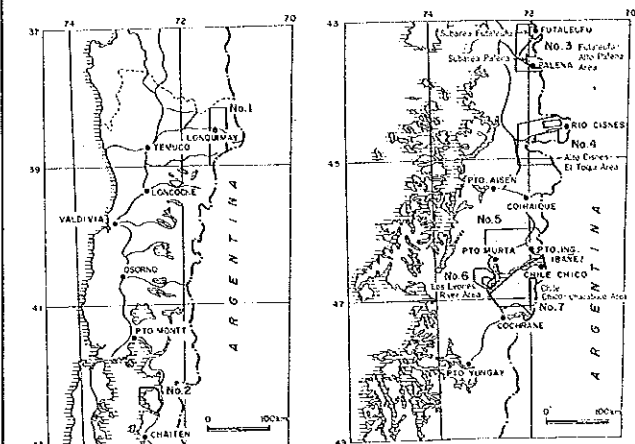
- IP15 Pan Concentrate Samples for Geochemical Exploration
- Rock/Ore Samples for Laboratory
 - TW : Ore Assay
 - TPS : Polished Section
 - TT : Thin Section
 - TR : Whole Rock Analysis
 - TD : K/Ar Absolute Age Determination
 - TX : X-ray Diffraction Analysis
- Survey Area





THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
PHASE II

LOCATION MAP OF SAMPLES OF FUTALEUFU-ALTO PALENA AREA
(SUB-AREA ALTO PALENA)

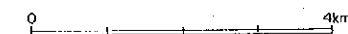


☐ PHASE I
☐ PHASE II

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LEGEND

● TS15 Stream Sediment Samples for Geochemical Exploration

Rock/Ore Samples for Laboratory

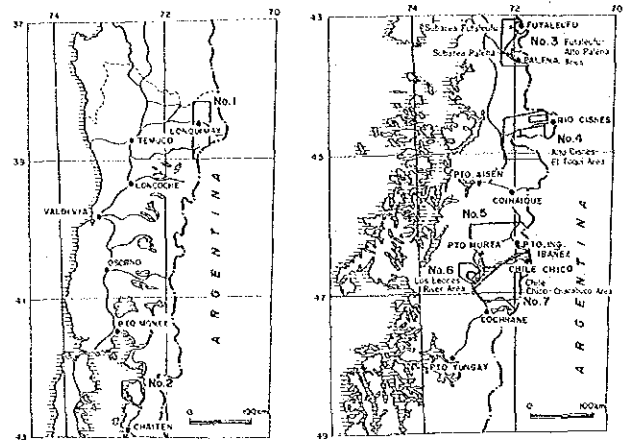
- TW : Ore Assay
- TPs : Polished Section
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- TD : K/Ar Absolute Age Determination
- TX : X-ray Diffraction Analysis

Survey Area



THE INVESTIGATION OF MINERAL POTENTIAL
 IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
 PHASE II

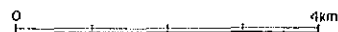
LOCATION MAP OF SAMPLES OF ALTO CISNES-EL TOQUI AREA



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 METAL MINING AGENCY OF JAPAN

Scale 1 : 50,000



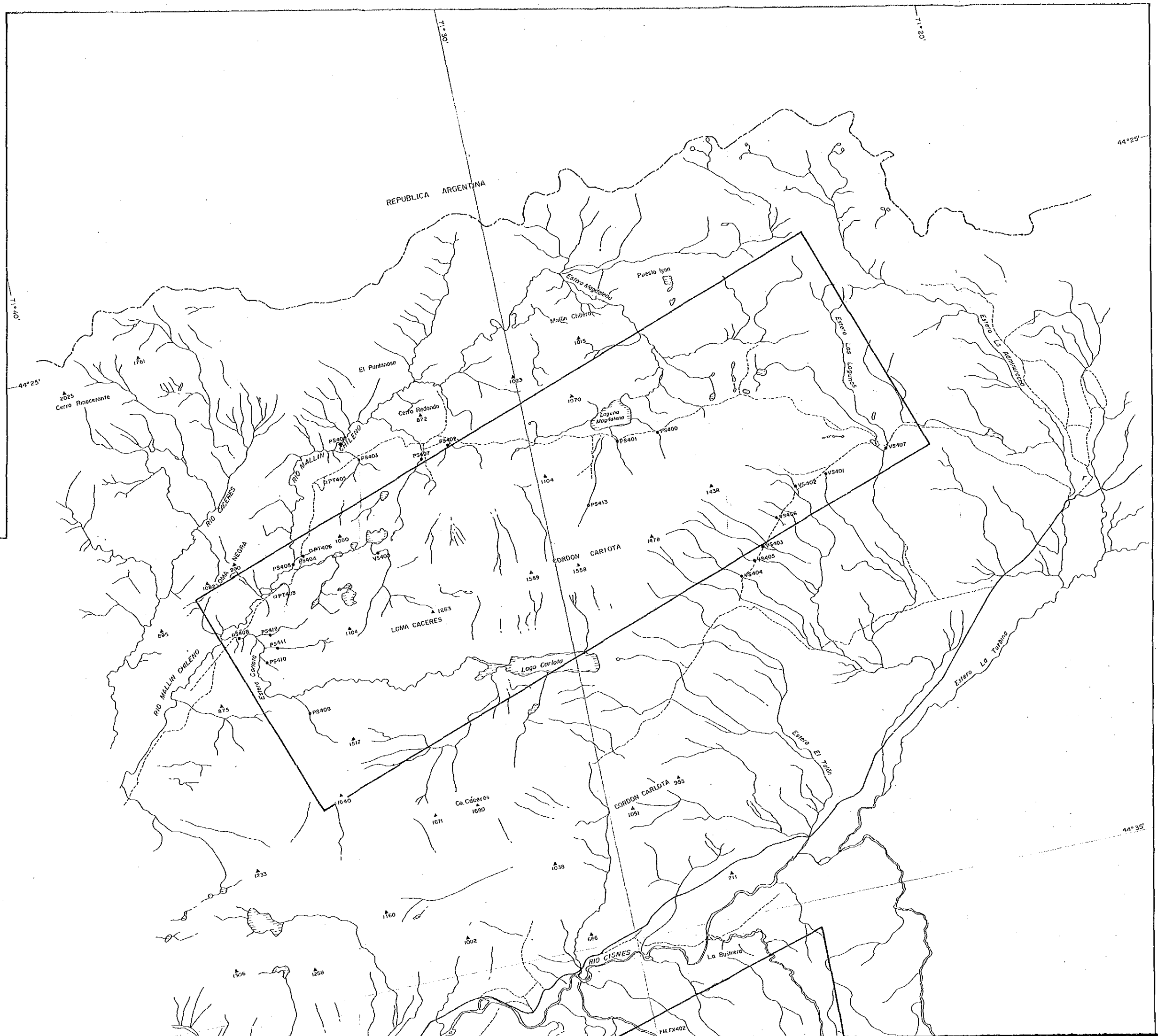
LEGEND

TS15 Stream Sediment Samples for Geochemical Exploration

Rock/Ore Samples for Laboratory

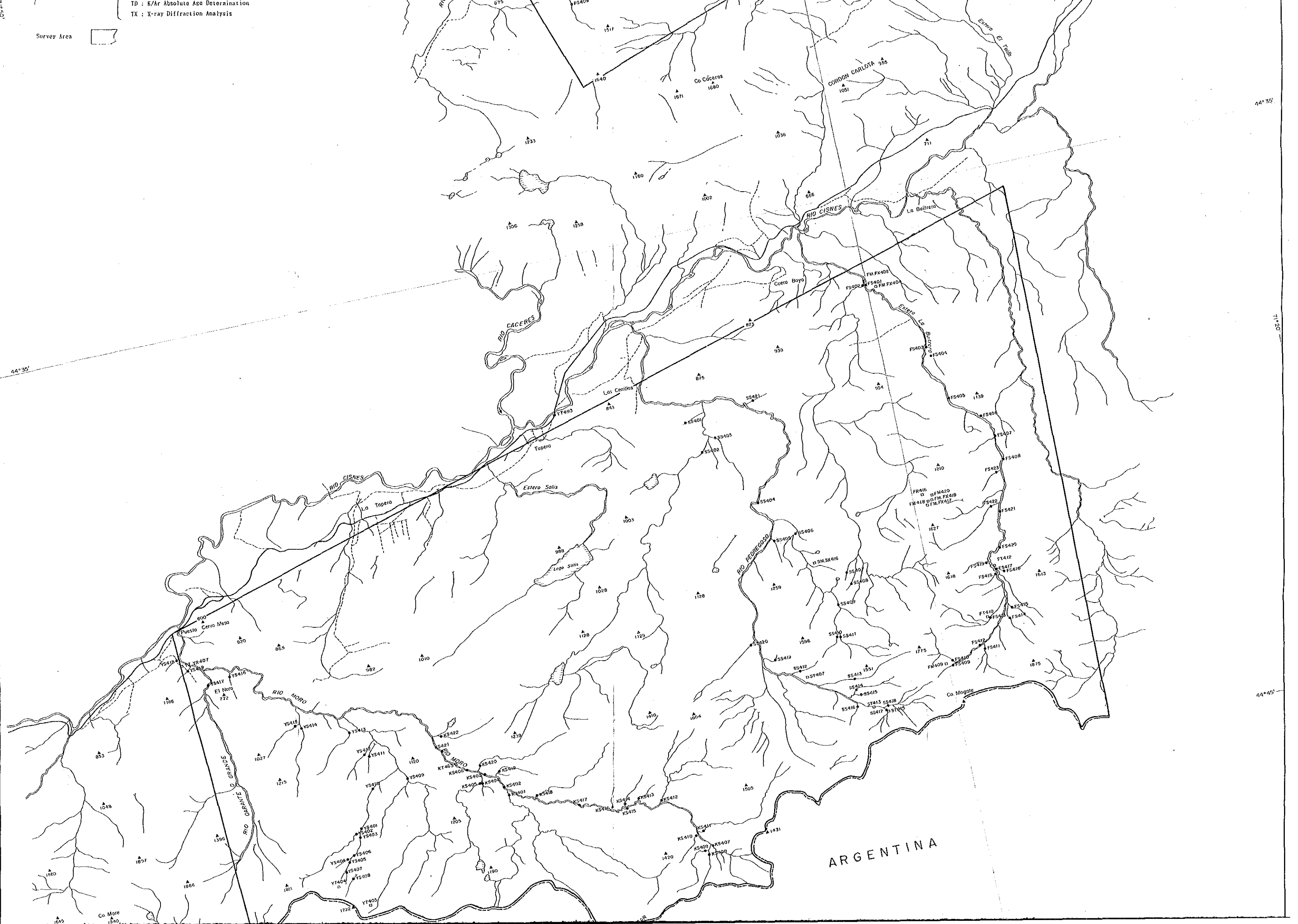
- TN : Ore Assay
- TPs : Polished Section
- TT : Thin Section
- TR : Whole Rock Analysis
- TD : K/Ar Absolute Age Determination
- TX : X-ray Diffraction Analysis

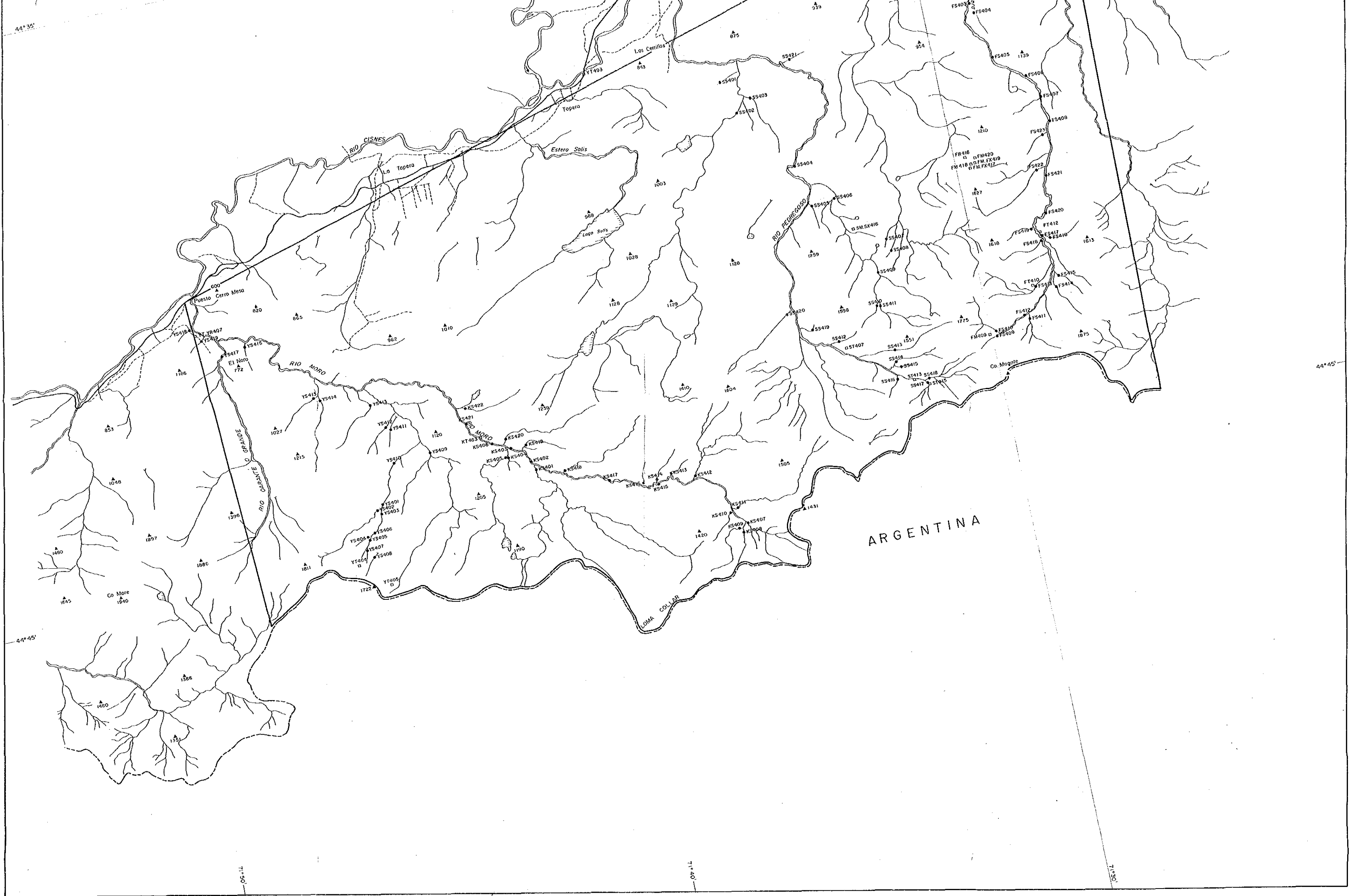
Survey Area

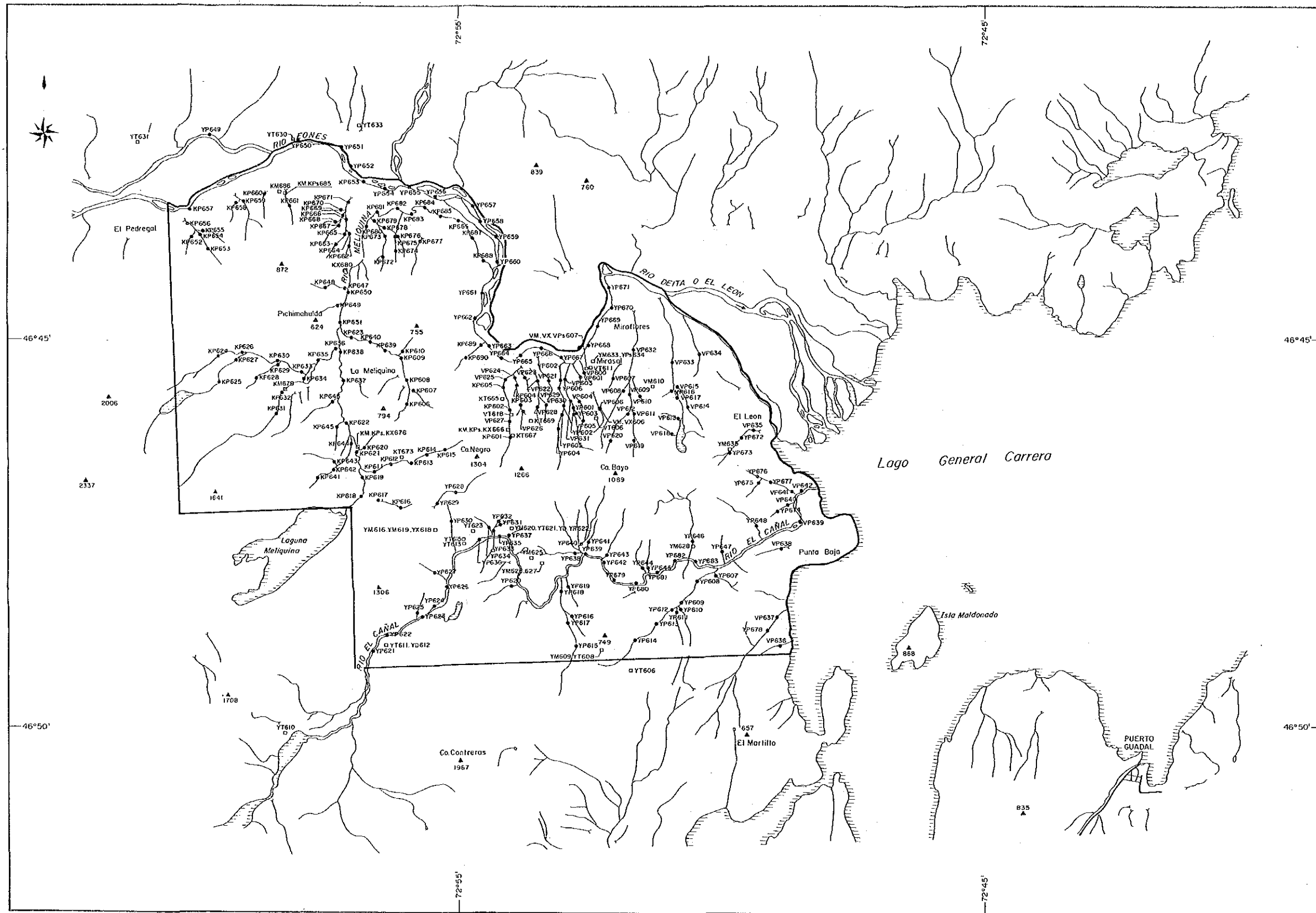


TD : K/Ar Absolute Age Determination
TX : X-ray Diffraction Analysis

Survey Area

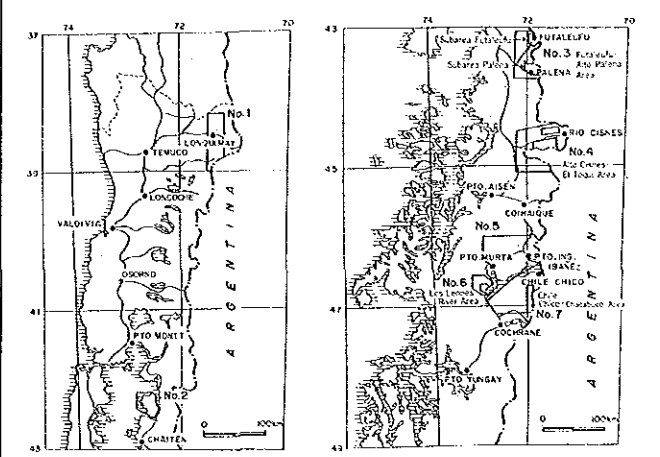






THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
PHASE II

LOCATION MAP OF SAMPLES OF LOS LEONES RIVER AREA



□ PHASE I
□ PHASE II

FEBRUARY 1991

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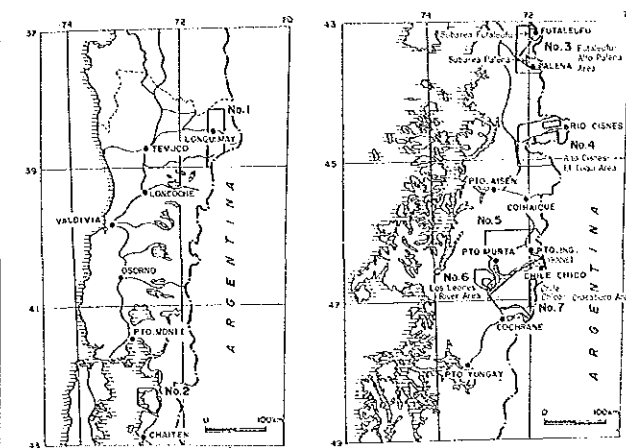


LEGEND

- TP15 Pan Concentrate Samples for Geochemical Exploration
- Rock/Ore Samples for Laboratory
 - TM : Ore Assay
 - TPs: Polished Section
 - TT : Thin Section
 - TR : Whole Rock Analysis
 - TD : K/Ar Absolute Age Determination
 - TX : X-ray Diffraction Analysis
- Survey Area

THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LOQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
PHASE II

LOCATION MAP OF SAMPLES OF CHILE CHICO-CHACABUCO AREA



□ PHASE I
□ PHASE II

FEBRUARY 1991

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METAL MINING AGENCY OF JAPAN

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LEGEND

- FP701 : Pan Concentrate Samples for Geochemical Exploration
- FM : Ore Assay
- FPs : Polished Section
- FT : Thin Section
- FX : X-ray Diffraction Analysis
- Hydrothermal Alteration Zone

