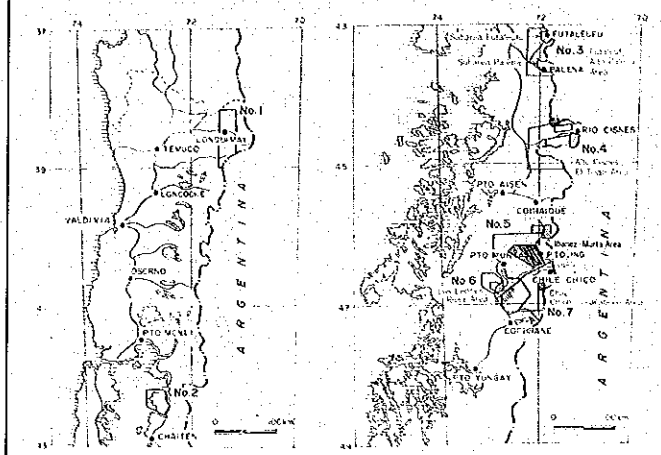


THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LONQUIMAY AREA AND REGIONS LOS LAGOS AND AYSEN
PHASE III

GEOLOGICAL MAP
OF
THE ALTO CISNES-EL TOQUI AREA



- PHASE I
- PHASE II
- PHASE III

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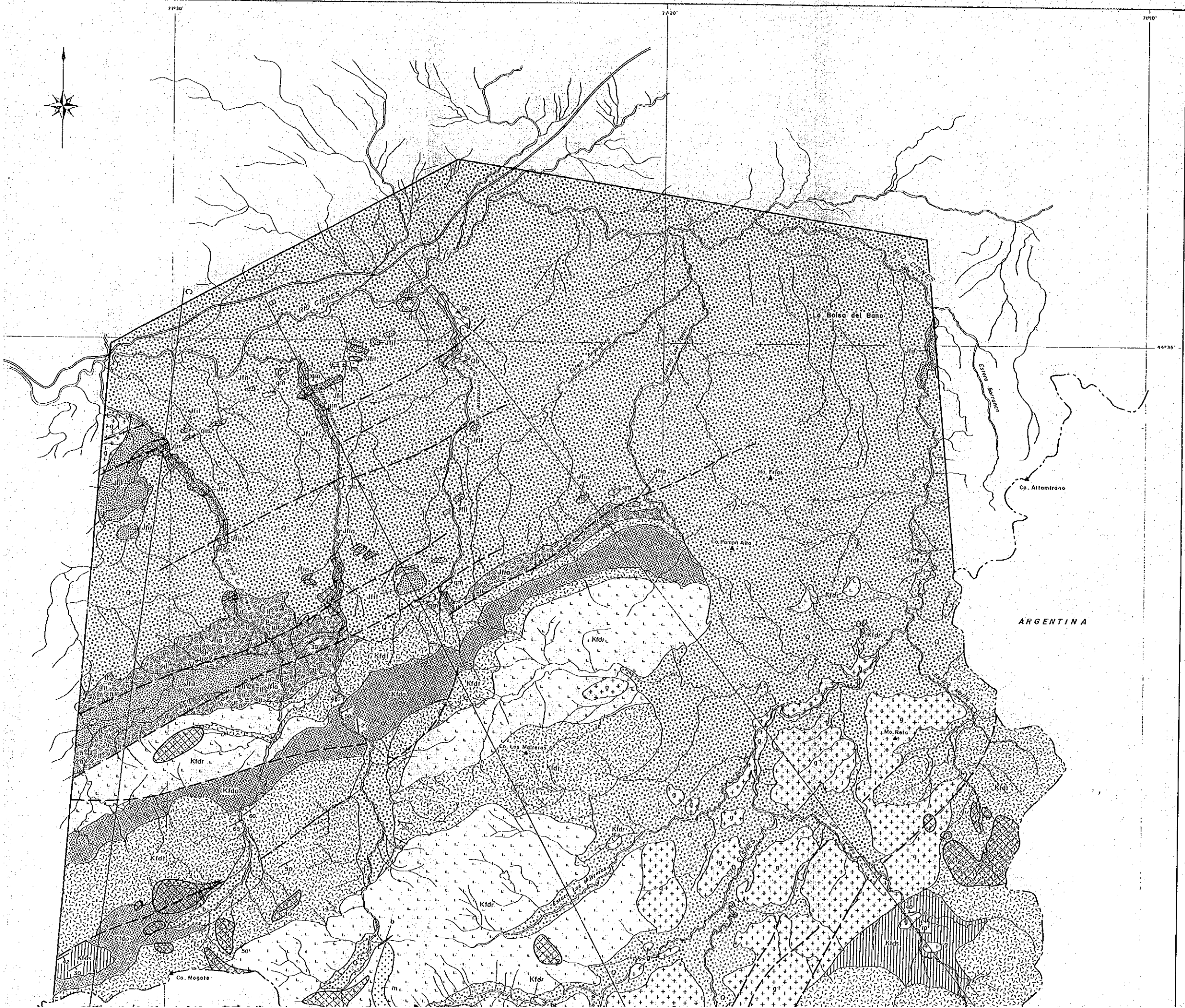
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

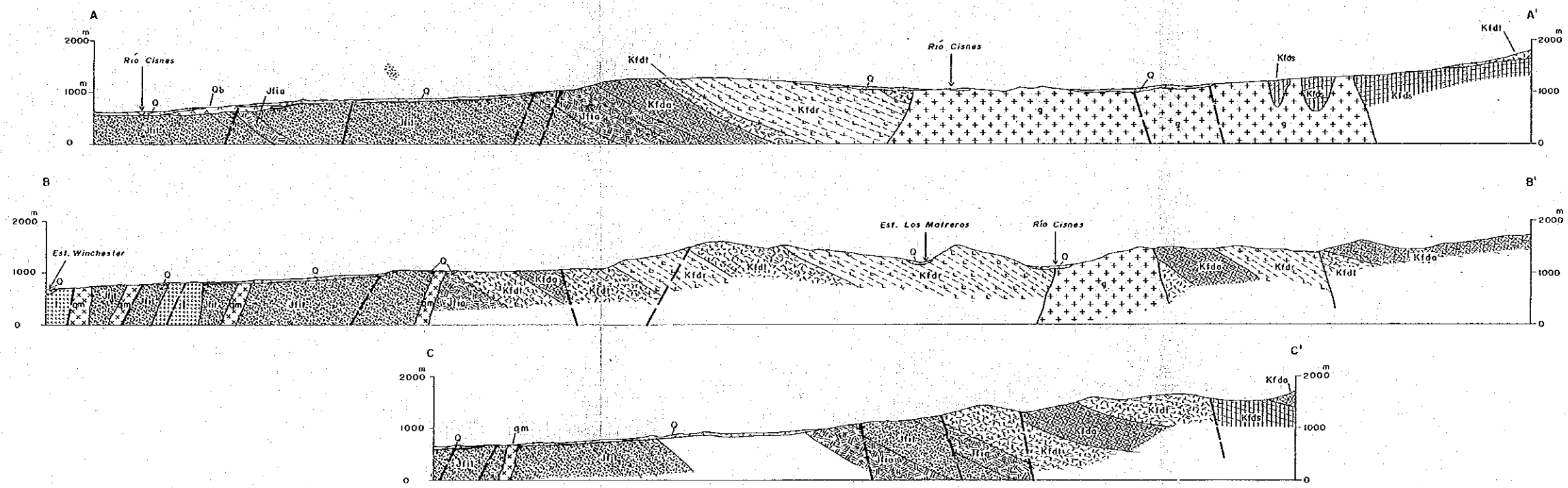
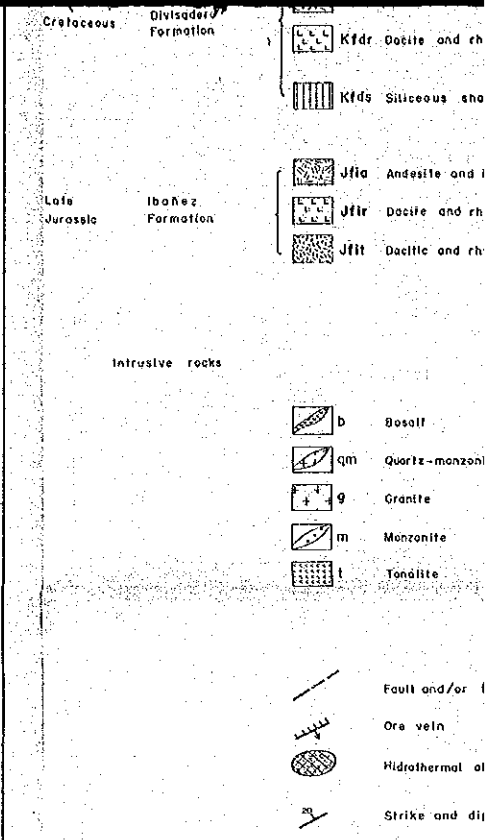
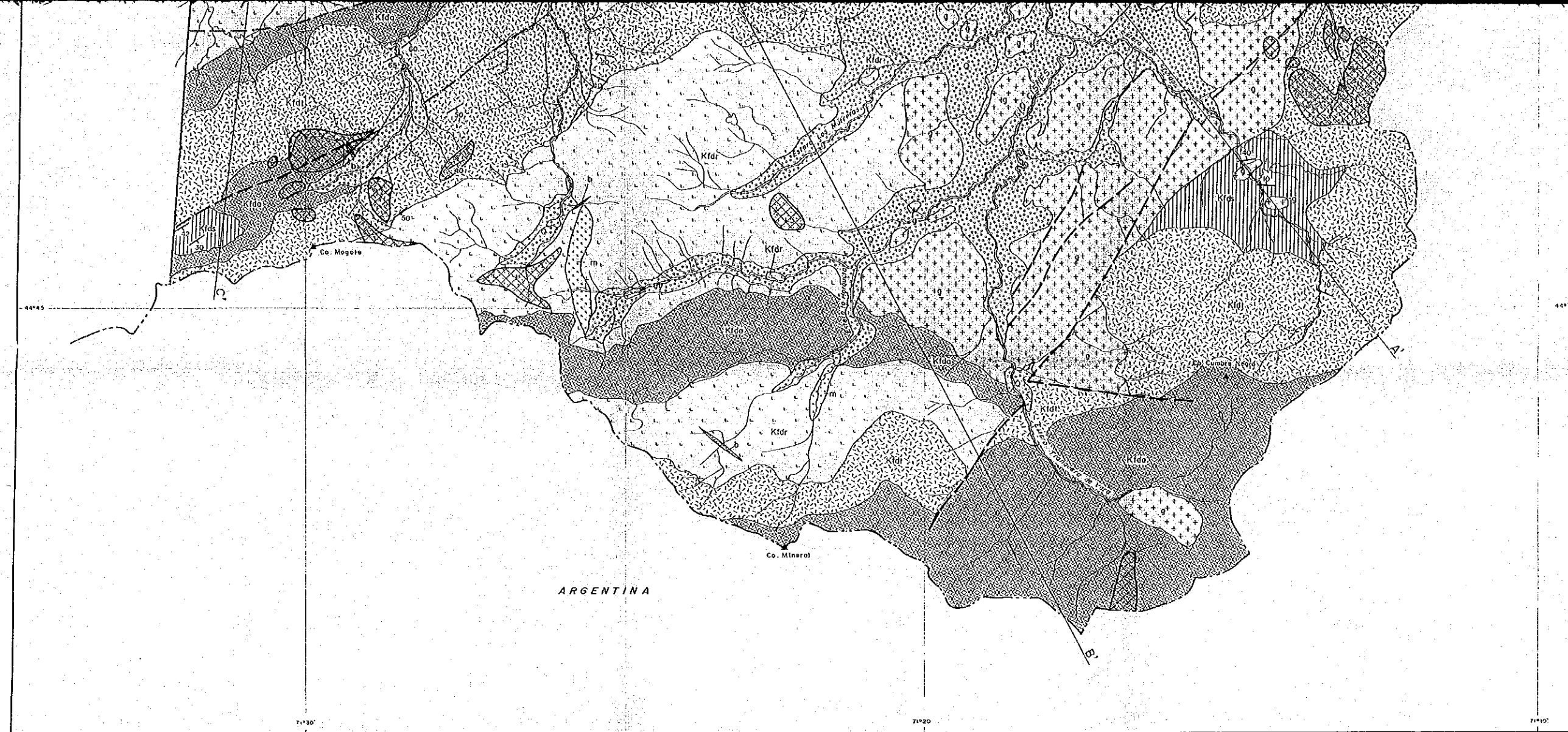
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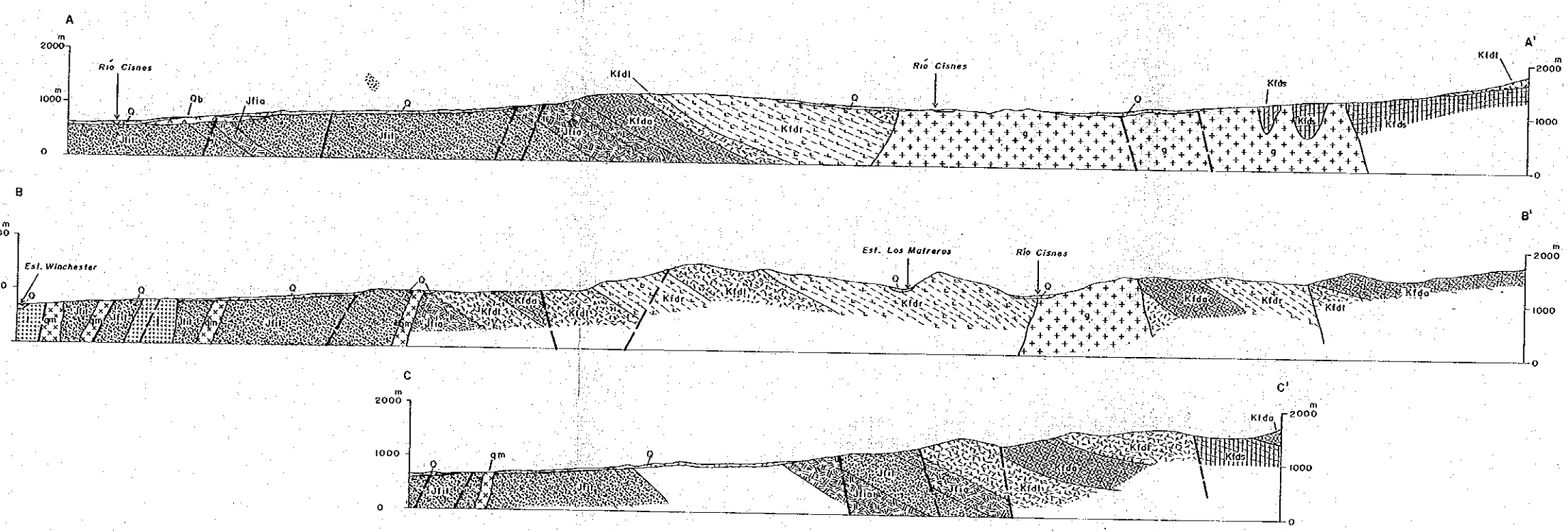
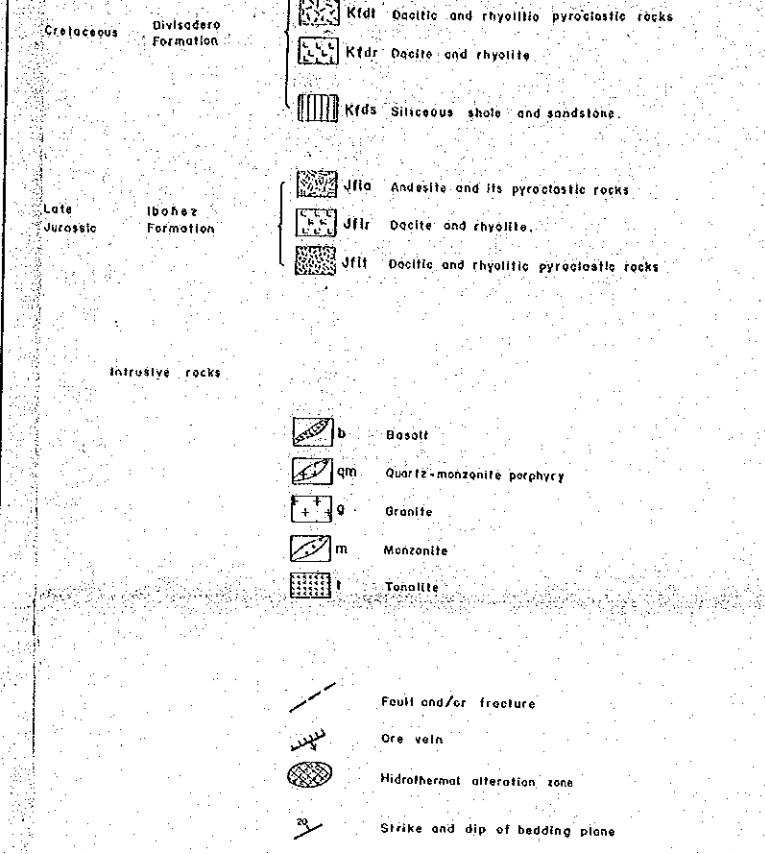
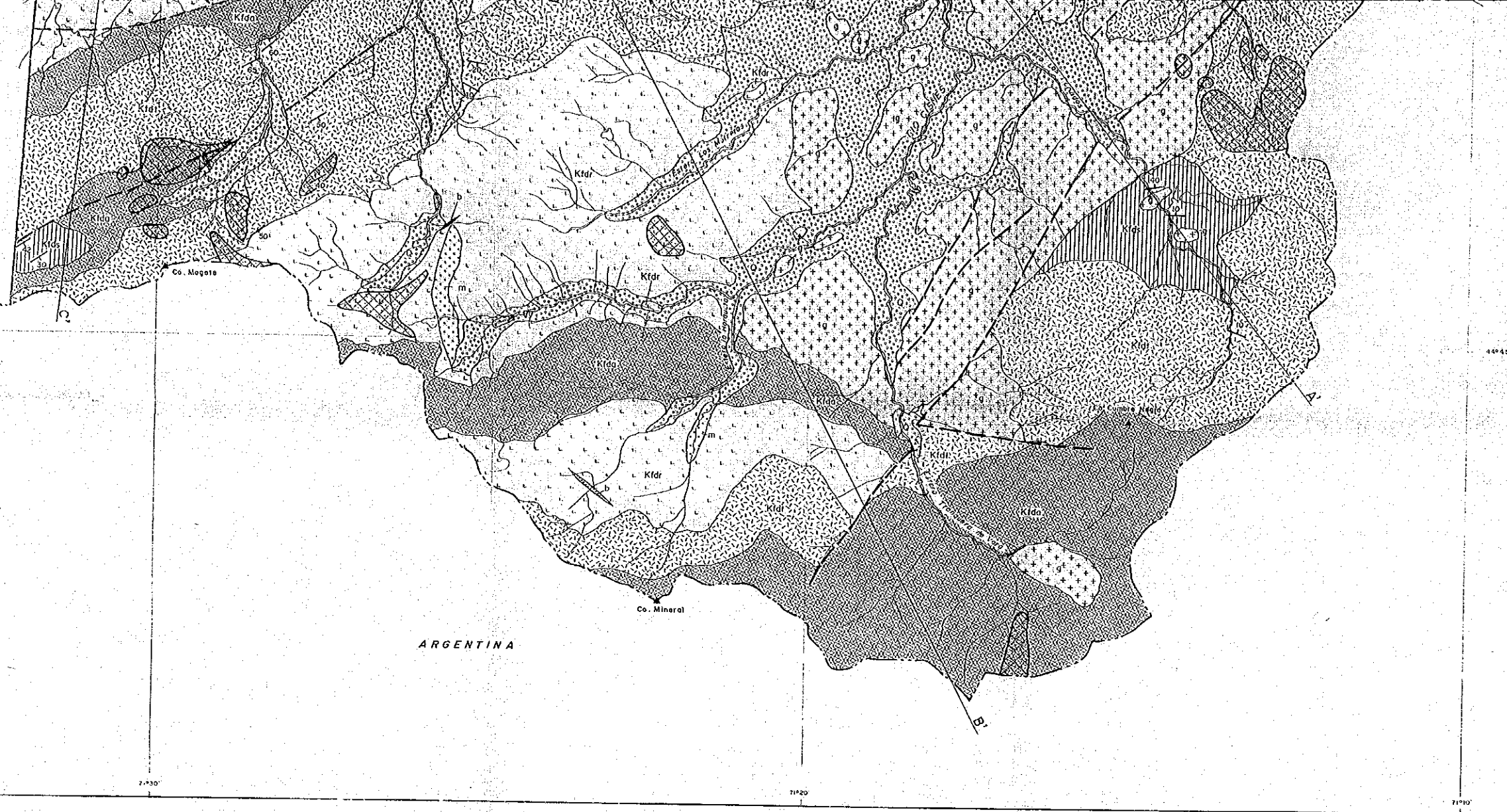


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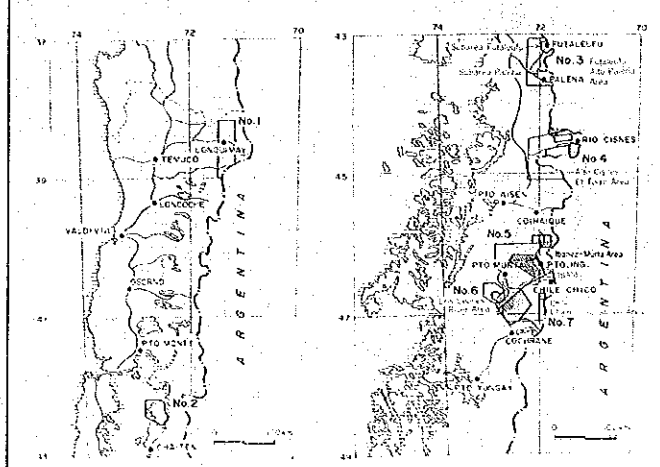
- | | | | |
|-----------------|--------------------------------------|------|--|
| Quaternary | Las Nacientes del Rio Cisnes Stratum | Q | Alluvial, fluvial, colluvial, glacial, talus and terrace deposits. |
| | | Qb | Basalt and andesite |
| | | Kfda | Andesite and its pyroclastic rocks |
| | | Kfdi | Dacitic and rhyolitic pyroclastic rocks |
| Cretaceous | Divisadero Formation | Kfdr | Dacite and rhyolite |
| | | Kfda | Siliceous shale and sandstone. |
| | | Jfja | Andesite and its pyroclastic rocks |
| Late Jurassic | Ibañez Formation | Jfir | Dacite and rhyolite. |
| | | Jfii | Dacitic and rhyolitic pyroclastic rocks |
| | | | |
| Intrusive rocks | | b | Basalt |





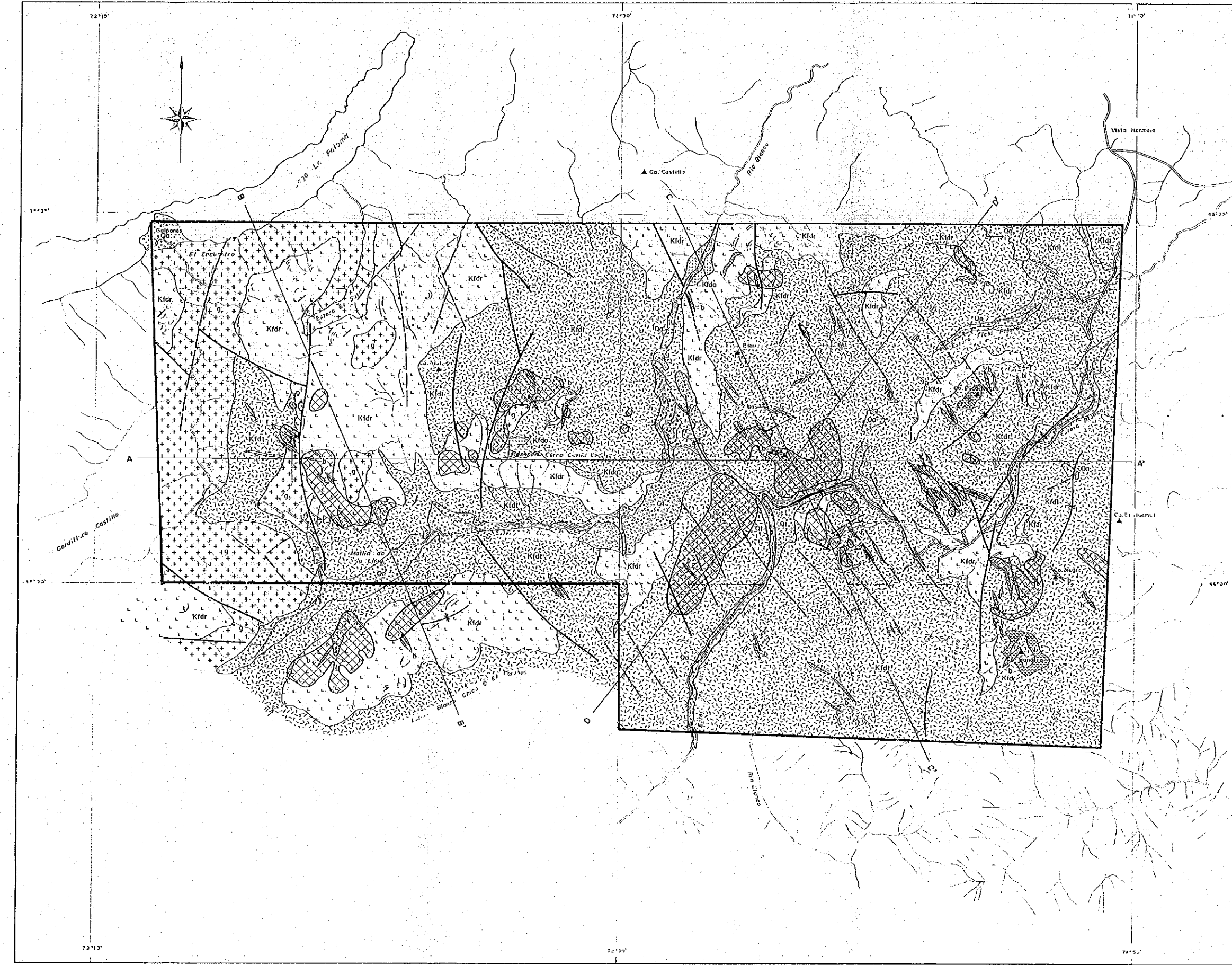


THE INVESTIGATION OF MINERAL POTENTIAL
 IN THE LONQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
 PHASE III
 GEOLOGICAL MAP
 OF
 THE IBÁÑEZ-MURTA AREA (NORTH)



FEBRUARY 1992
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 METAL MINING AGENCY OF JAPAN

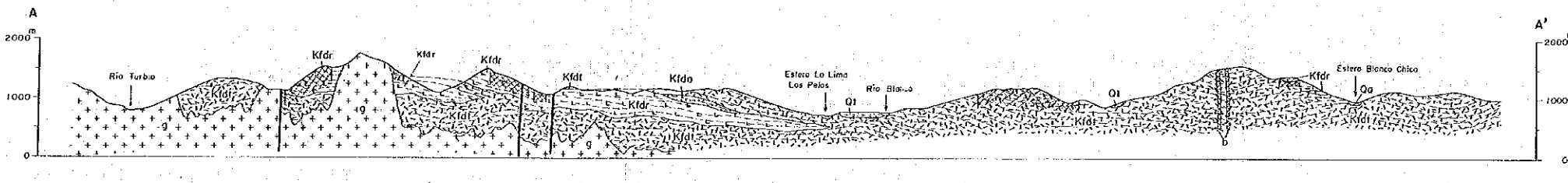
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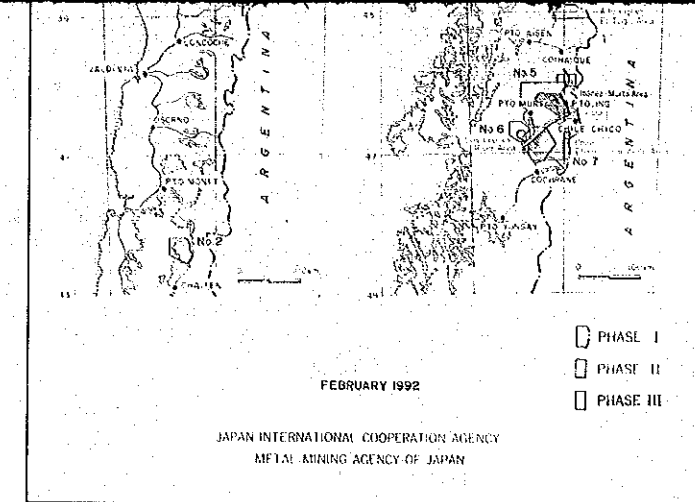
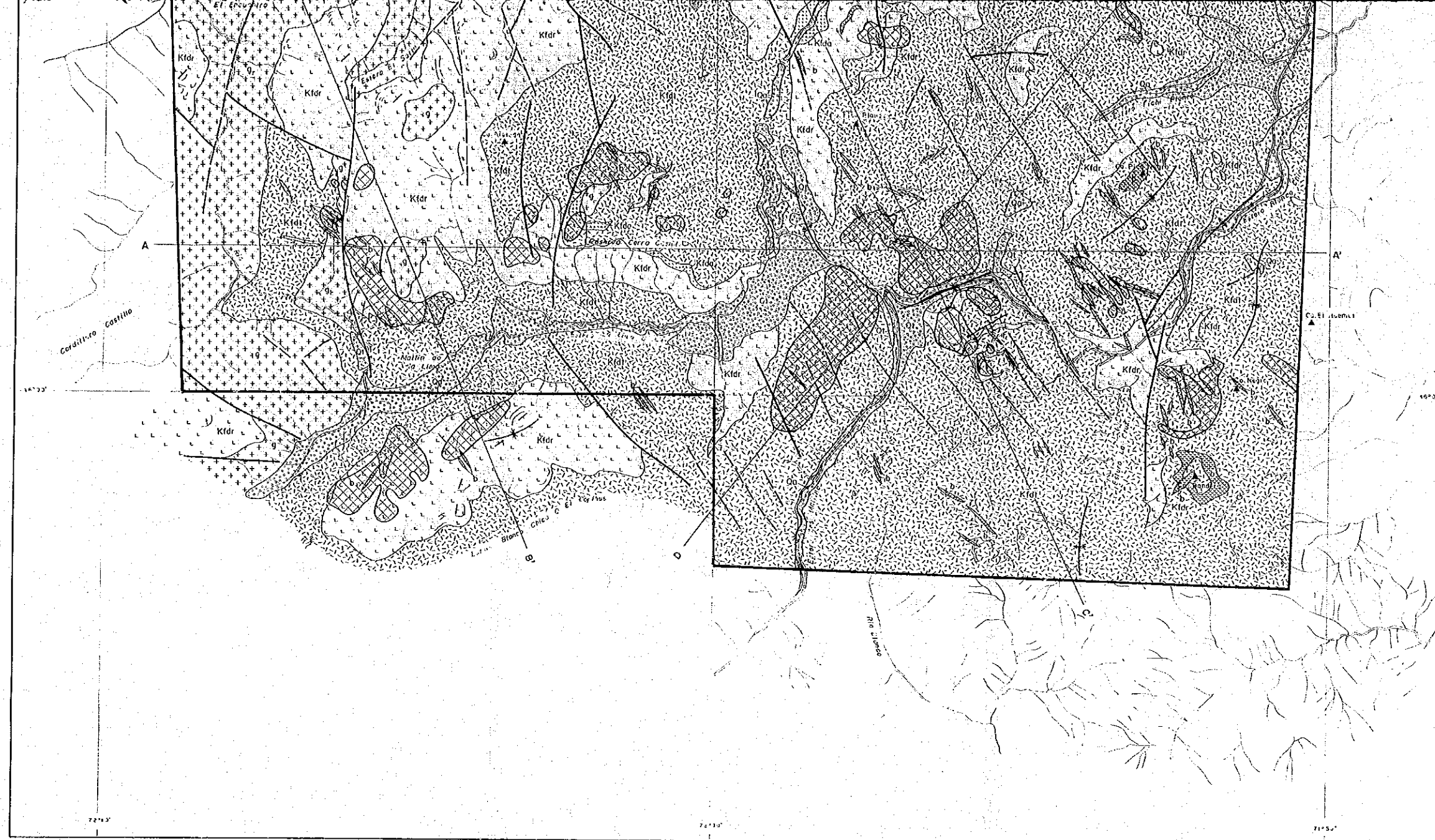


LEGEND

- | | | | |
|-----------------|-------------|--|--|
| Quaternary | Holocene | Qa | Alluvial, fluvial, colluvial and talus deposits |
| | Pleistocene | Ql | Terrace, glacial and lacustrine deposits |
| Cretaceous | Late | Kf | Docitic ruff breccias, lapilli ruffs, fine tuffs, sandy ruffs and minor amounts of andesitic tuffs |
| | | Kldr | Divisadero Formation: Mainly rhyolite lavas |
| | Creaceous | Klda | Andesite lavas |
| Intrusive rocks | b | Basalt and basaltic andesite dikes and sheets | |
| | r | Rhyolite dikes and dacite porphyries | |
| | g | Undifferentiated plutonic rocks: Granite, granodiorite tonalite, diorite | |

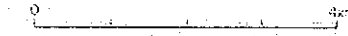
- Hydrothermal alteration zones
- Faults (broken line: inferred or latent)
- Photo lineaments
- Anticlinal axes
- Synclinal axes
- Bedding trace visible on aerial photographs





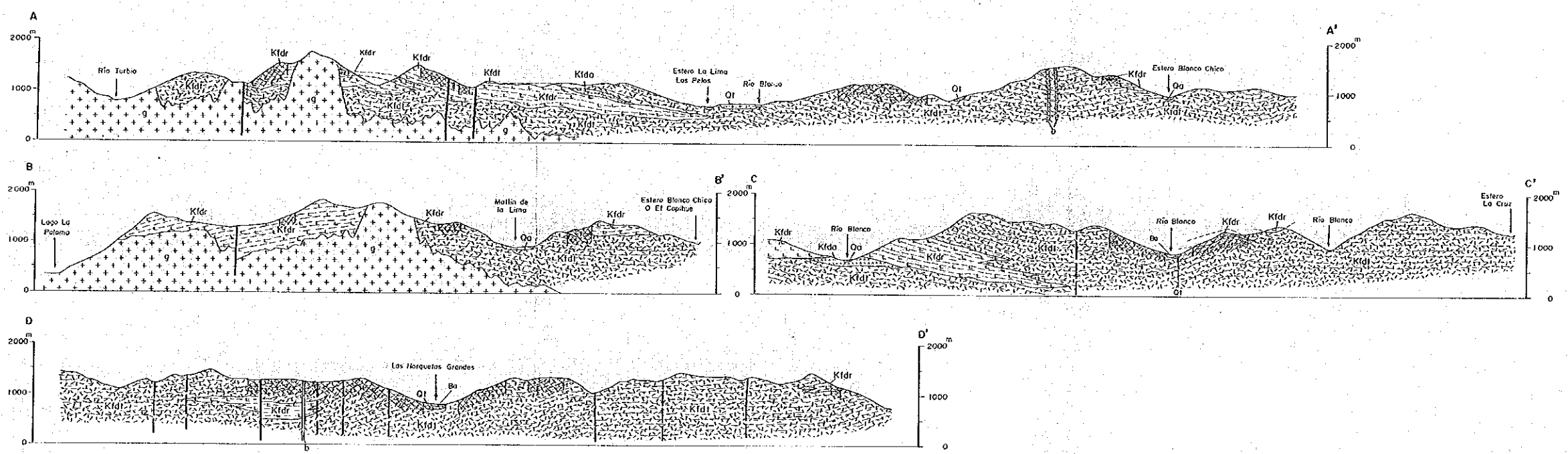
FEBRUARY 1992
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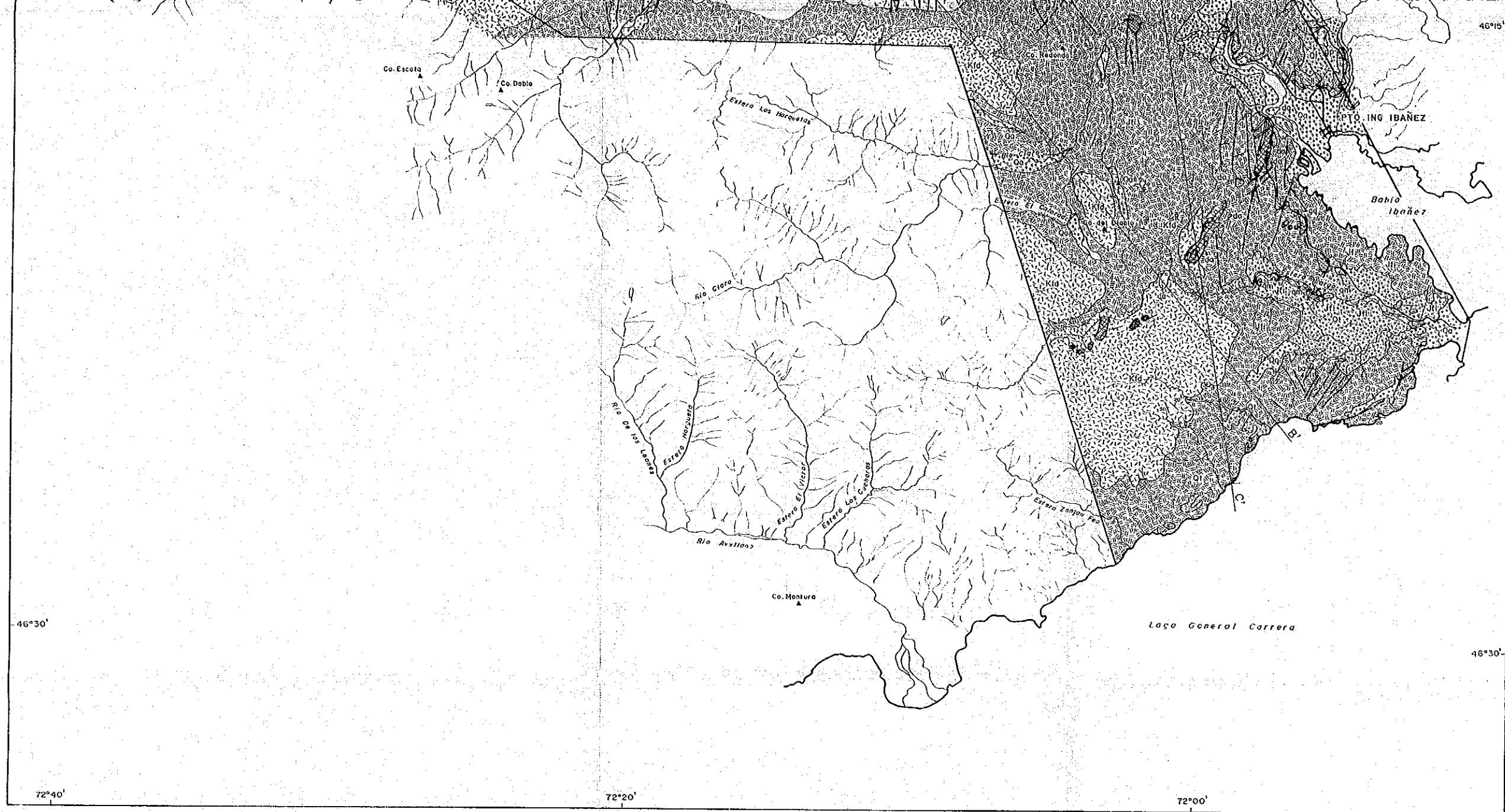
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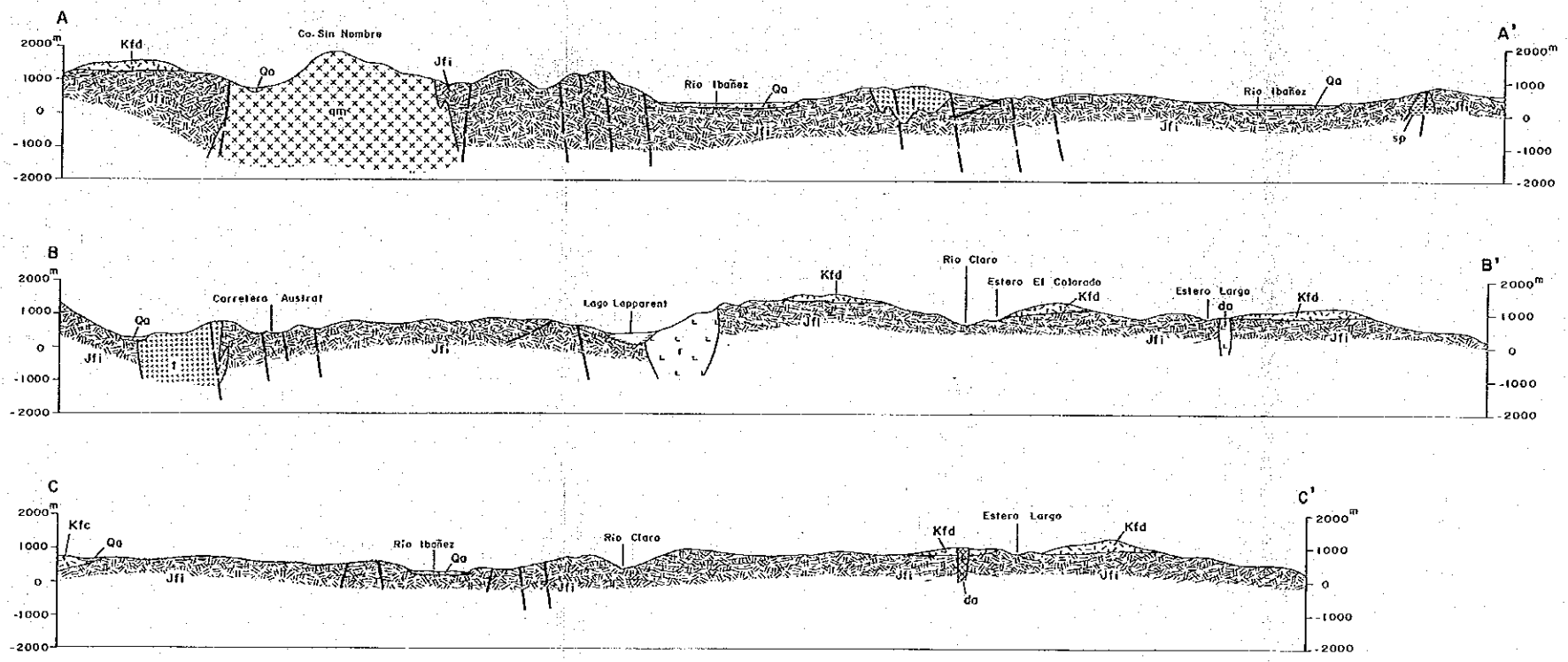
- | | | | |
|-----------------|-------------|------|---|
| Quaternary | Holocene | Qa | Alluvial, fluvial, colluvial and talus deposits |
| | Pleistocene | Qt | Terrace, glacial and lacustrine deposits |
| Cretaceous | Late | Kf | Dolitic tuff breccias, lapilli tuffs, fine tuffs, sandy tuffs and minor amounts of andesite tuffs |
| | Cretaceous | Kfdr | |
| | | | Kfda |
| Intrusive rocks | | b | Basalt and basaltic andesite dikes and sheets |
| | | r | Rhyolite dikes and dolite porphyries |
| | | g | Undifferentiated plutonic rocks: Granite, granodiorite, tonalite, diorite |
-
- Hydrothermal alteration zones
 - Faults (broken line: inferred or latest)
 - Photolineaments
 - Anticlinal axes
 - Synclinal axes
 - Bedding trace visible on aerial photographs
 - Strike and dip of bedding plane

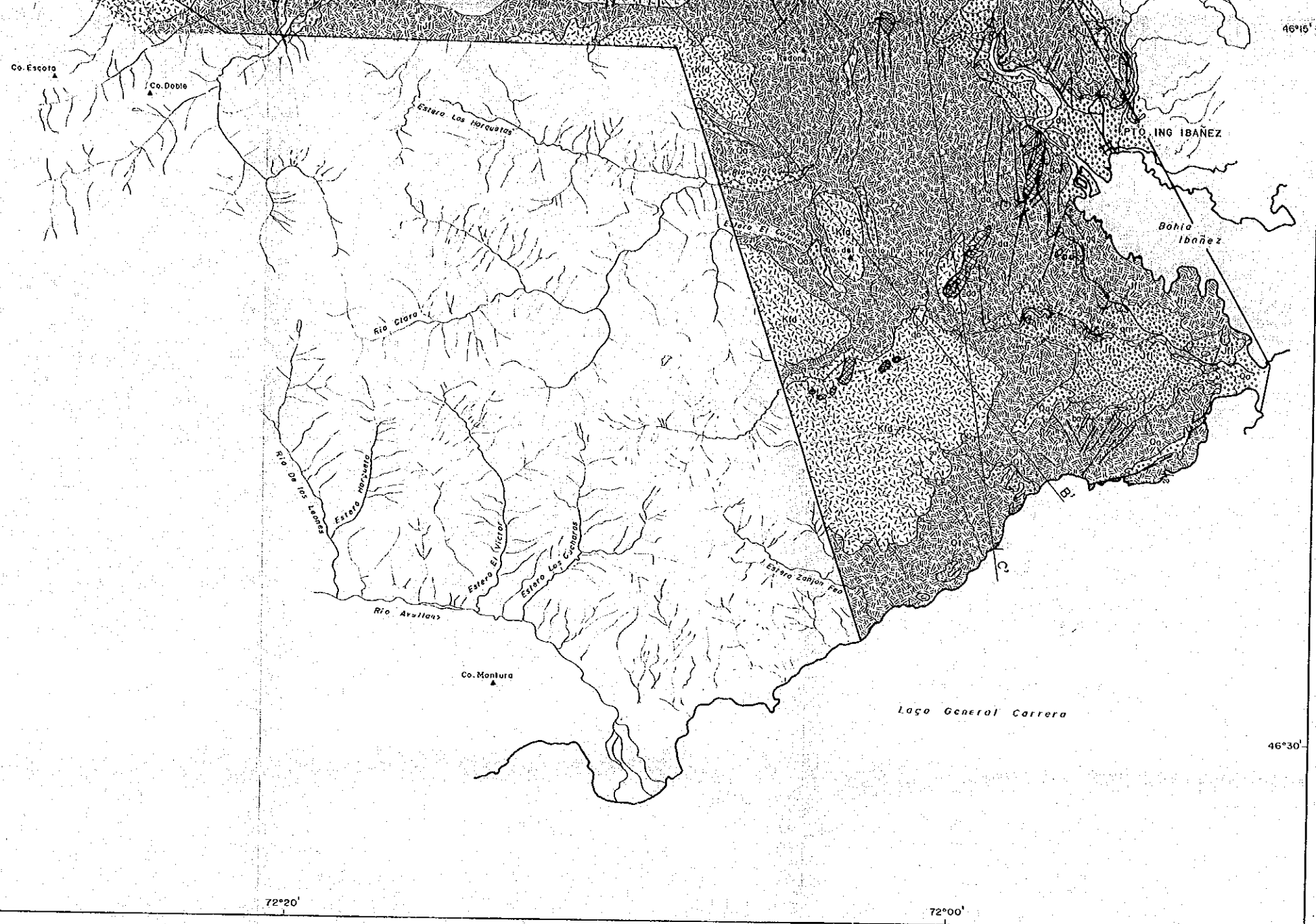




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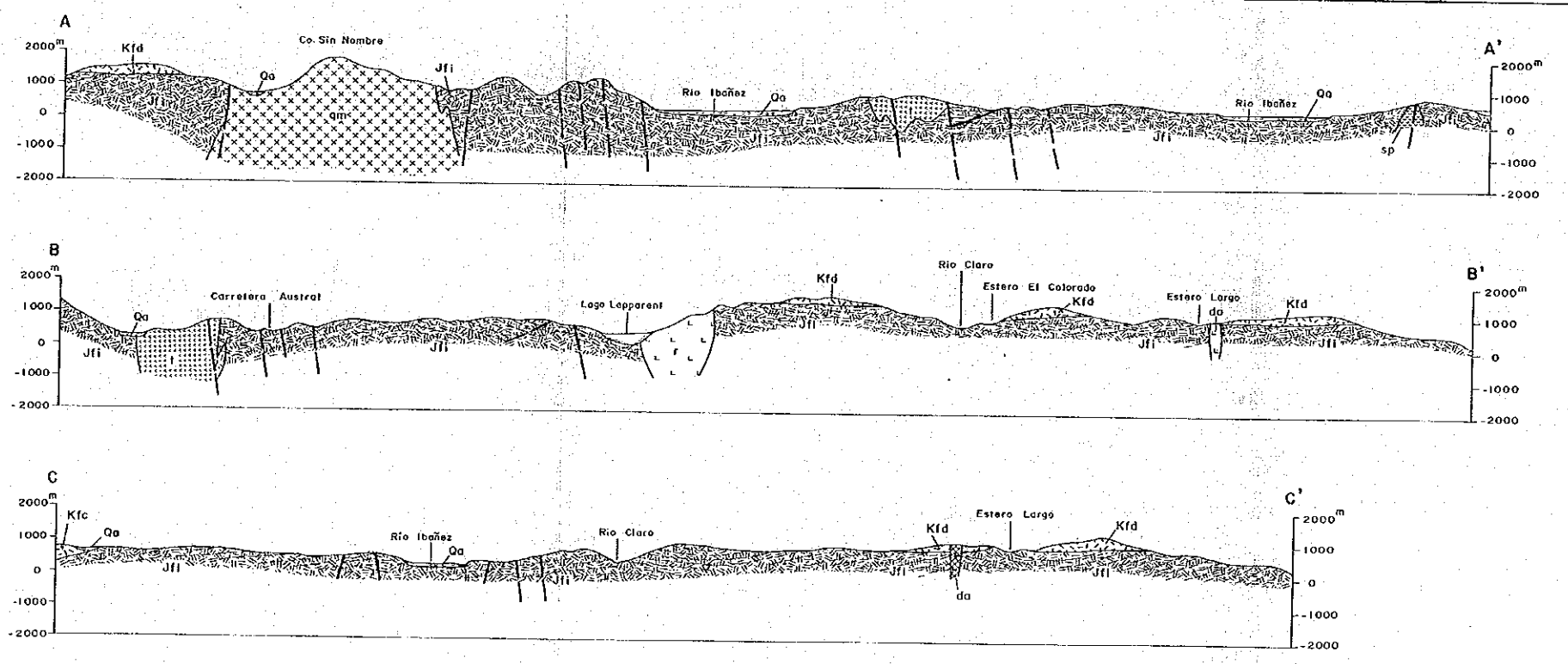
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|------------|----------------------|-----|--|
| Quaternary | Holocene | Qa | Alluvial, fluvial, colluvial and talus deposits |
| | Pleistocene | Qt | Terrace and glacial deposits |
| Cretaceous | Aptian to Cenomanian | Kfd | Divisadero Formation: Dacite and other pyroclastic rocks |
| | Neocomian | Kfc | Coyhaique Formation: Black shale and other rocks |
| Jurassic | Malm | Jfi | Ibañez Formation: Rhyolite, dacite and other pyroclastic rocks |
-
- | | | |
|-----------------|------------------|--------------------|
| Intrusive rocks | r | Rhyolite |
| | da | Dacite |
| | m | Monzonite porphyry |
| | bo | Basaltic andesite |
| | sp | Syenite porphyry |
| | gd | Granodiorite |
| | qm | Quartz monzonite |
| | t | Tonalite |
| gp | Granite porphyry | |
-
- | | |
|---|---------------------------------|
| — | Fault and/or fracture |
| — | Ore vein |
| ○ | Hydrothermal alteration zones |
| ↘ | Strike and dip of bedding plane |

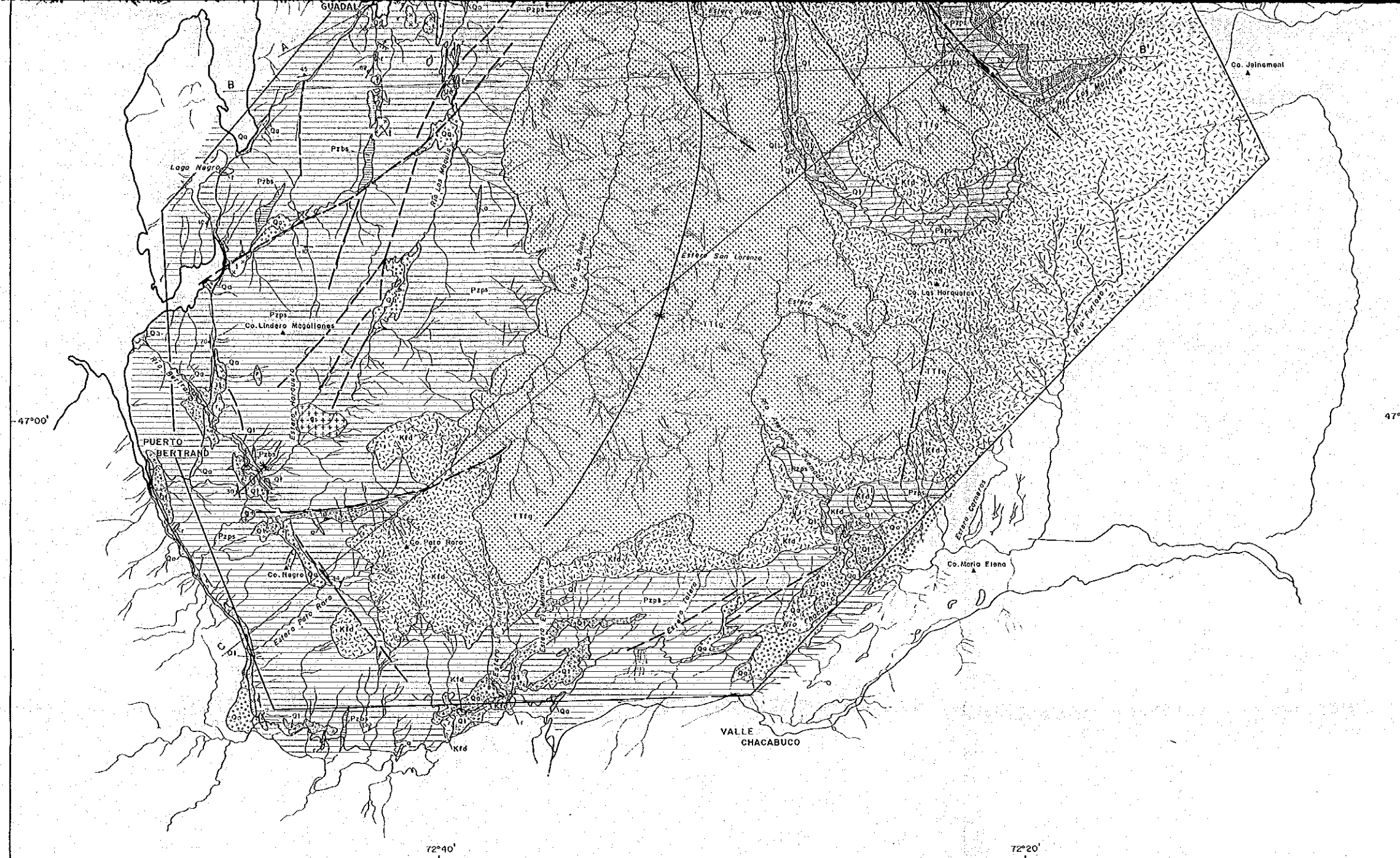




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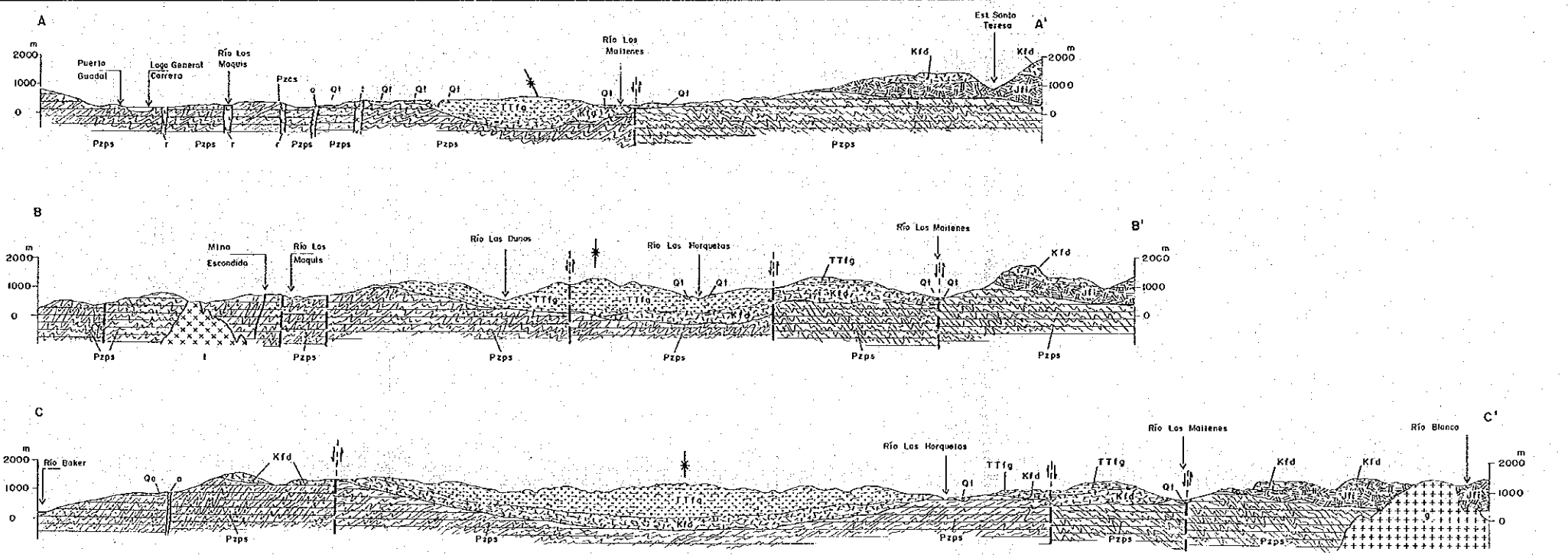
- | | | | |
|------------|----------------------|-----|--|
| Quaternary | Holocene | Qa | Alluvial, fluvial, colluvial and talus deposits |
| | Pleistocene | Qt | Terrace and glacial deposits |
| Cretaceous | Aptian to Cenomanian | Kfd | Divisadera Formation: Dacite and andesite, and these pyroclastic rocks |
| | Neocomian | Kfc | Coyhaique Formation: Black shale and sandstones |
| Jurassic | Malm | Jfi | Ibañez Formation: Rhyolite, dacite and andesite, and these pyroclastic rocks |
-
- | | | |
|-----------------|----|--------------------|
| Intrusive rocks | r | Rhyolite |
| | da | Dacite |
| | m | Monzonite porphyry |
| | ba | Basaltic andesite |
| | sp | Syenite porphyry |
| | gd | Granodiorite |
| | qm | Quartz monzonite |
| | t | Tonalite |
| | gp | Granite porphyry |
-
- | | |
|---|---------------------------------|
| — | Fault and/or fracture |
| — | Ore vein |
| ⊗ | Hydrothermal alteration zones |
| ↘ | Strike and dip of bedding plane |

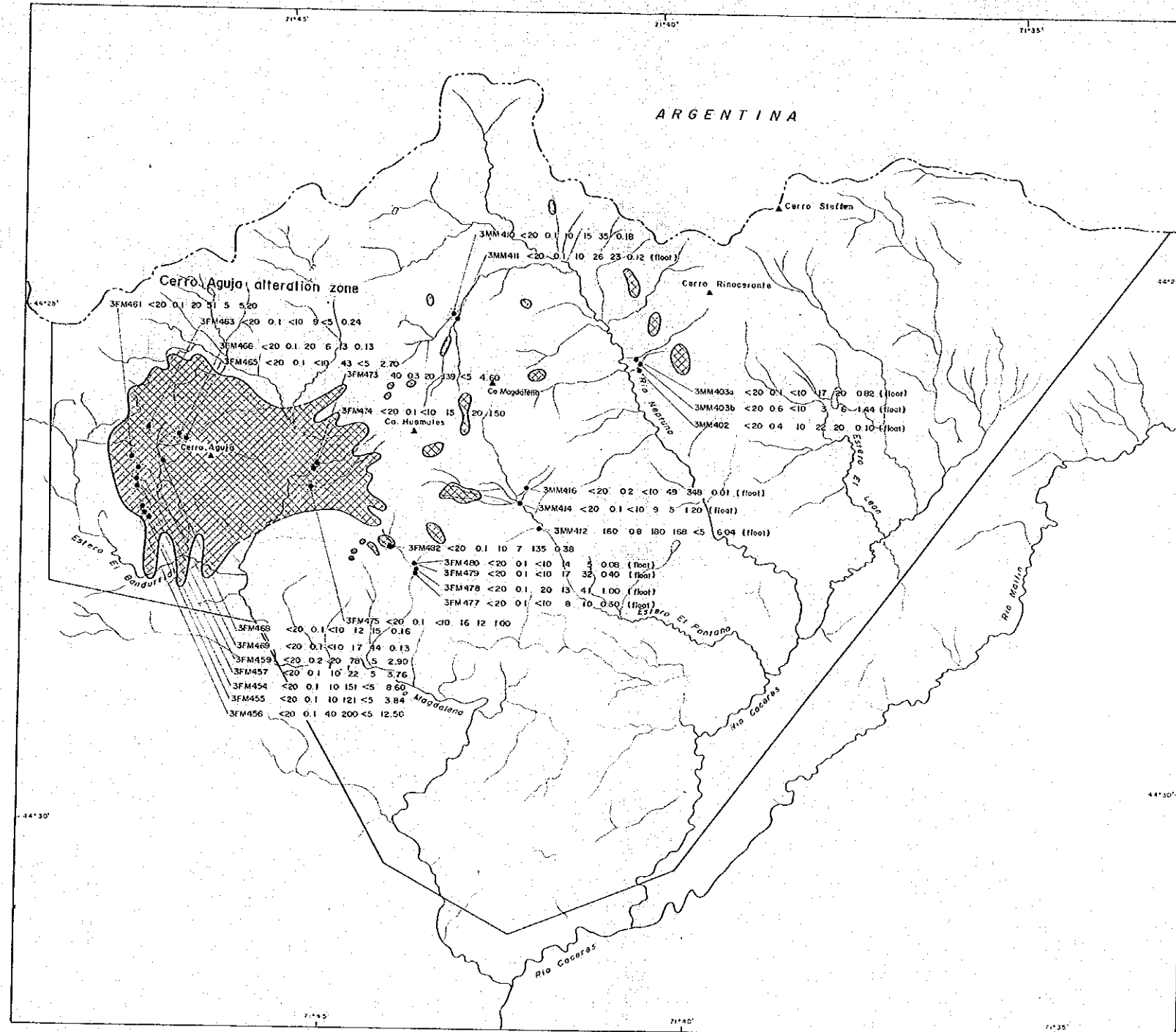




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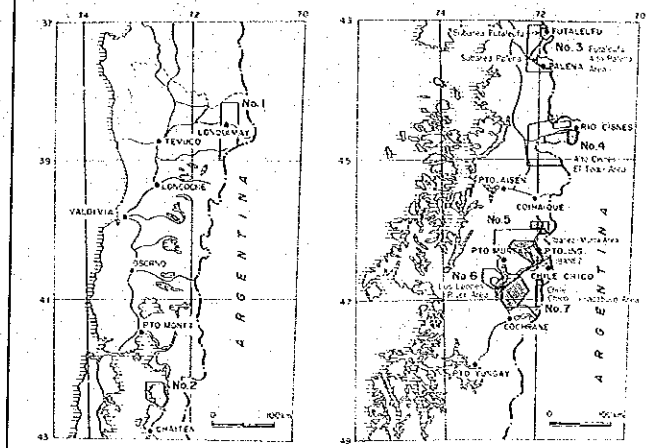
- | | | | |
|-----------------|-------------------------------|------------------------------|---|
| Quaternary | Holocene | Qa | Alluvial, fluvial, colluvial and talus deposits. |
| | Pleistocene | Ql | Terrace and glacial deposits. |
| Tertiary | Early Pliocene to Late Eocene | TTfg | Galera Formation: Conglomerates, sandstones, shales, continental tuffites with cross-bedding and imbricate structure to east.
Guadal Formation: Mainly marine sandstones |
| | Cretaceous | Late Cretaceous | Kfd |
| Jurassic | | Late to Middle Jurassic | Jfi |
| Paleozoic | Late Paleozoic | Pzps | Metamorphic basement: Mainly pelitic schists. |
| | | Pzbs | Metamorphic basement: Basic schists and metabasites. |
| | | Pzcs | Metamorphic basement: Calcareous schists. |
| Intrusive rocks | a | Andesite dikes. | |
| | r | Rhyolite and Dacite dikes. | |
| | t | Tonalites and quartzdiorites | |
| | g | Granites | |
| | o | Ore vein | |
| | | | Hydrothermal alteration zones |
| | | | Faults (broken line: inferred or latent) |
| | | | Synclinal axes. |
| | | | Strike and dip of bedding plane |
| | | | Strike and dip of schistosity |





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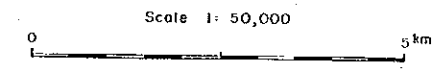
THE INVESTIGATION OF MINERAL POTENTIAL
IN THE LONQUIMAY AREA AND REGIONS LOS LAGOS AND AYSÉN
PHASE III
DISTRIBUTION MAP OF MINERALIZATION
AND ALTERATION ZONES OF THE
ALTO CISNES-EL TOQUI AREA
(CERRO AGUJA ALTERATION ZONE)



- PHASE I
- PHASE II
- PHASE III

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LEGEND

- Location of samples for assaying
- ⊗ Alteration zone

Sample No.	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	S %
3FM456	<20	0.1	40	200	<5	12.50