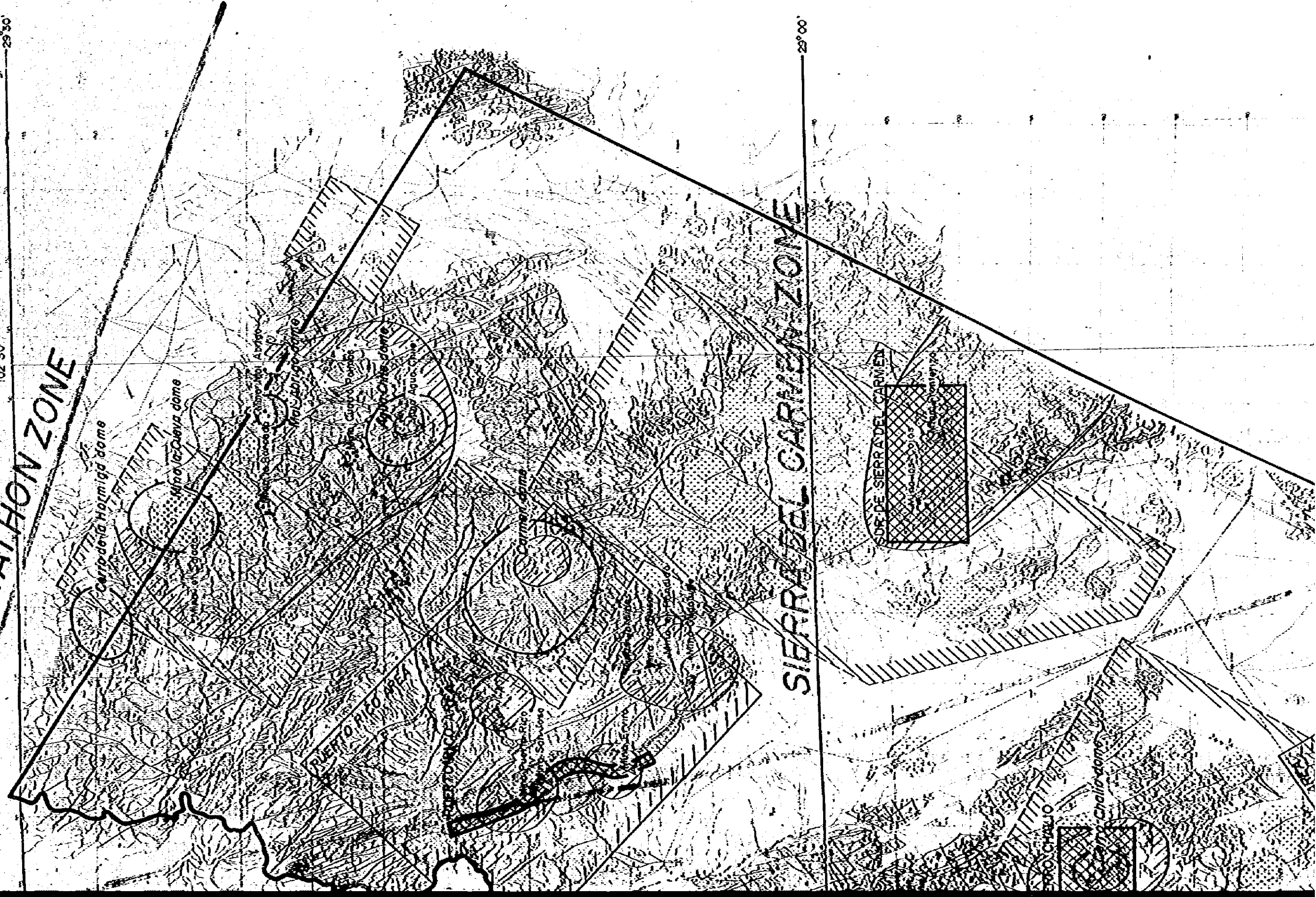


BAHUILA, MEXICO

MARATHON ZONE

102°30' 29°30'



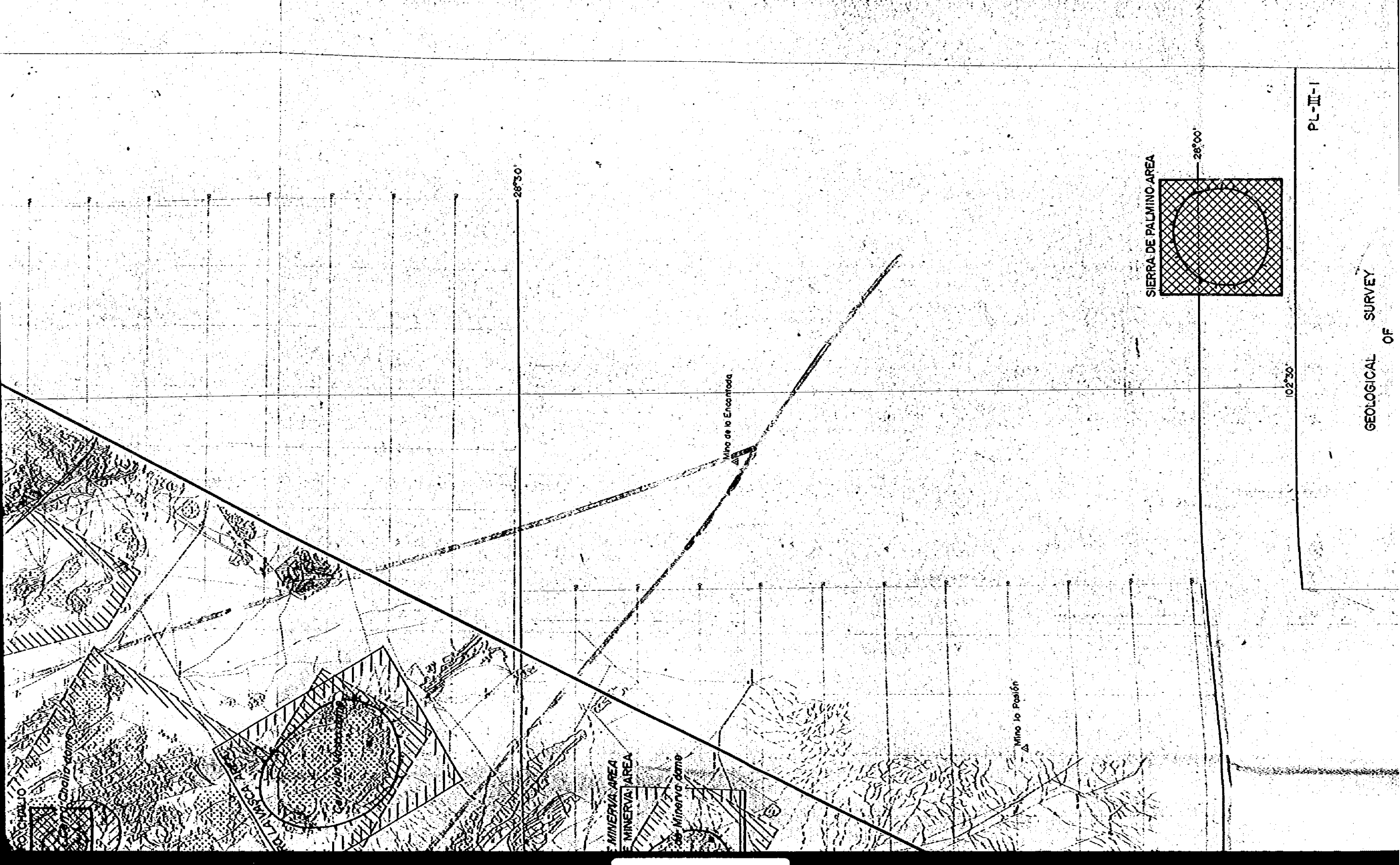
SIERRA DEL CARMEN ZONE

29°00'

SIERRA DEL CARMEN

PUERTO ORISCO

CHALLO DOME



COCHABAMBO

Challapampa

LA PALMIRA

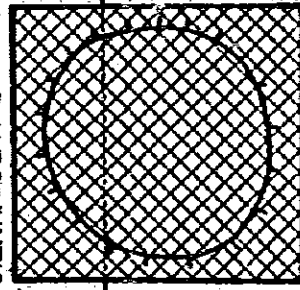
Callapampa

MINERVA AREA

MINERVA AREA

MinerVA dam

SIERRA DE PALMINO AREA



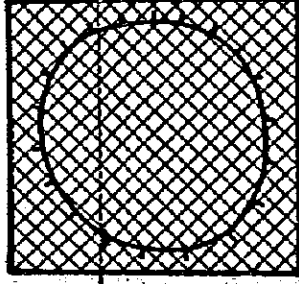
102°30'

PL-III-1

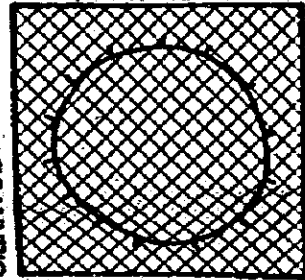
GEOLOGICAL SURVEY OF

Mino to Posión

SIERRA DE PALMINO AREA



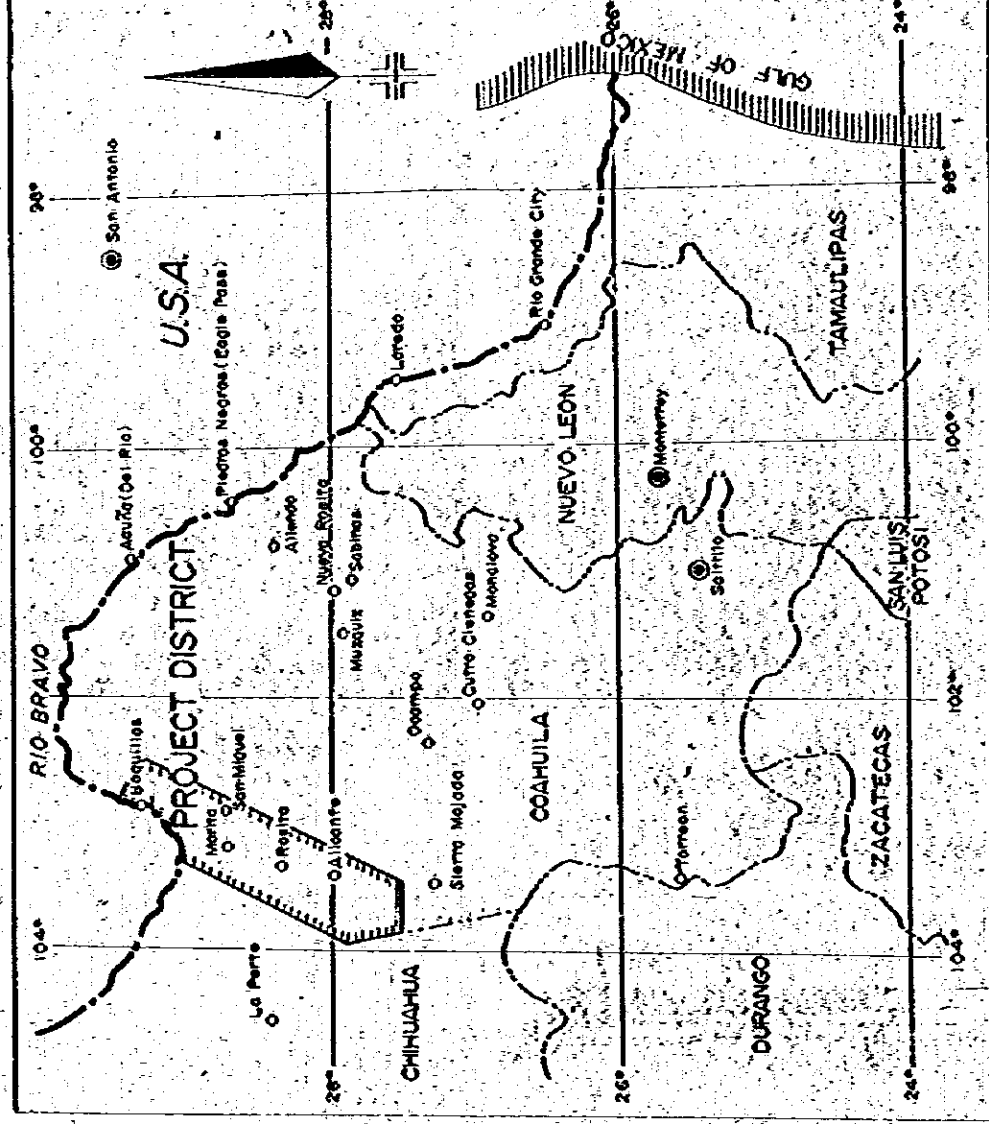
SIERRA DE PUERTO BLANCO AREA



PL-III-1

GEOLOGICAL SURVEY
OF
THE COAHUILA AREA, NORTHERN MEXICO

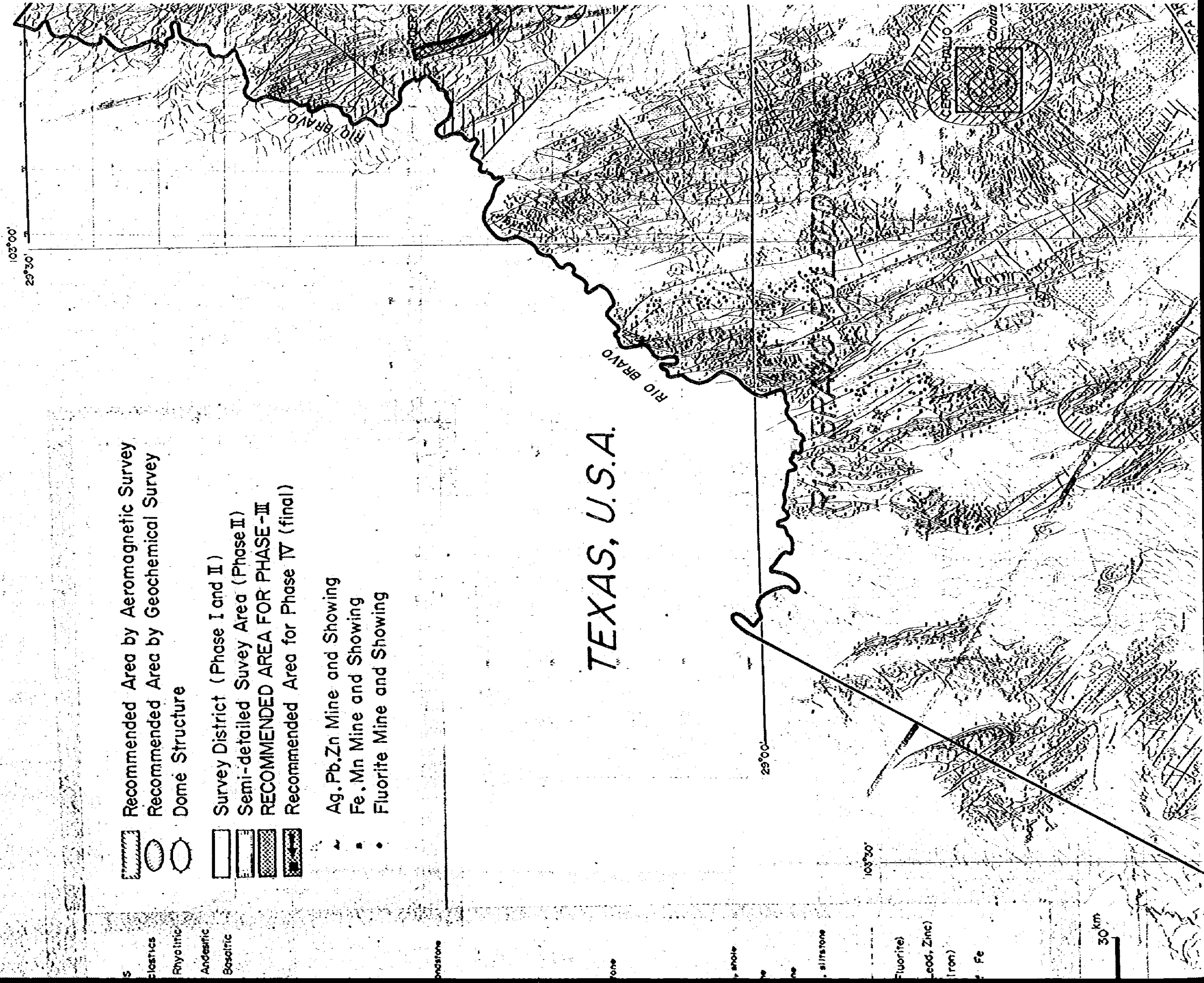
GEOLOGICAL MAP OF THE NORTHERN COAHUILA, MEXICO

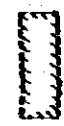











METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL CO-OPERATION AGENCY
GOVERNMENT OF JAPAN
COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES
DE MEXICO

FEB. 1979

MAP OF THE NORTHERN COAHUILA



-  Recommended Area by Aeromagnetic Survey
-  Recommended Area by Geochemical Survey
-  Dome Structure
-  Survey District (Phase I and II)
-  Semi-detailed Survey Area (Phase II)
-  **RECOMMENDED AREA FOR PHASE -III**
-  Recommended Area for Phase IV (final)
-  Ag. Pb. Zn Mine and Showing
-  Fe. Mn Mine and Showing
-  Fluorite Mine and Showing

TEXAS, U.S.A.

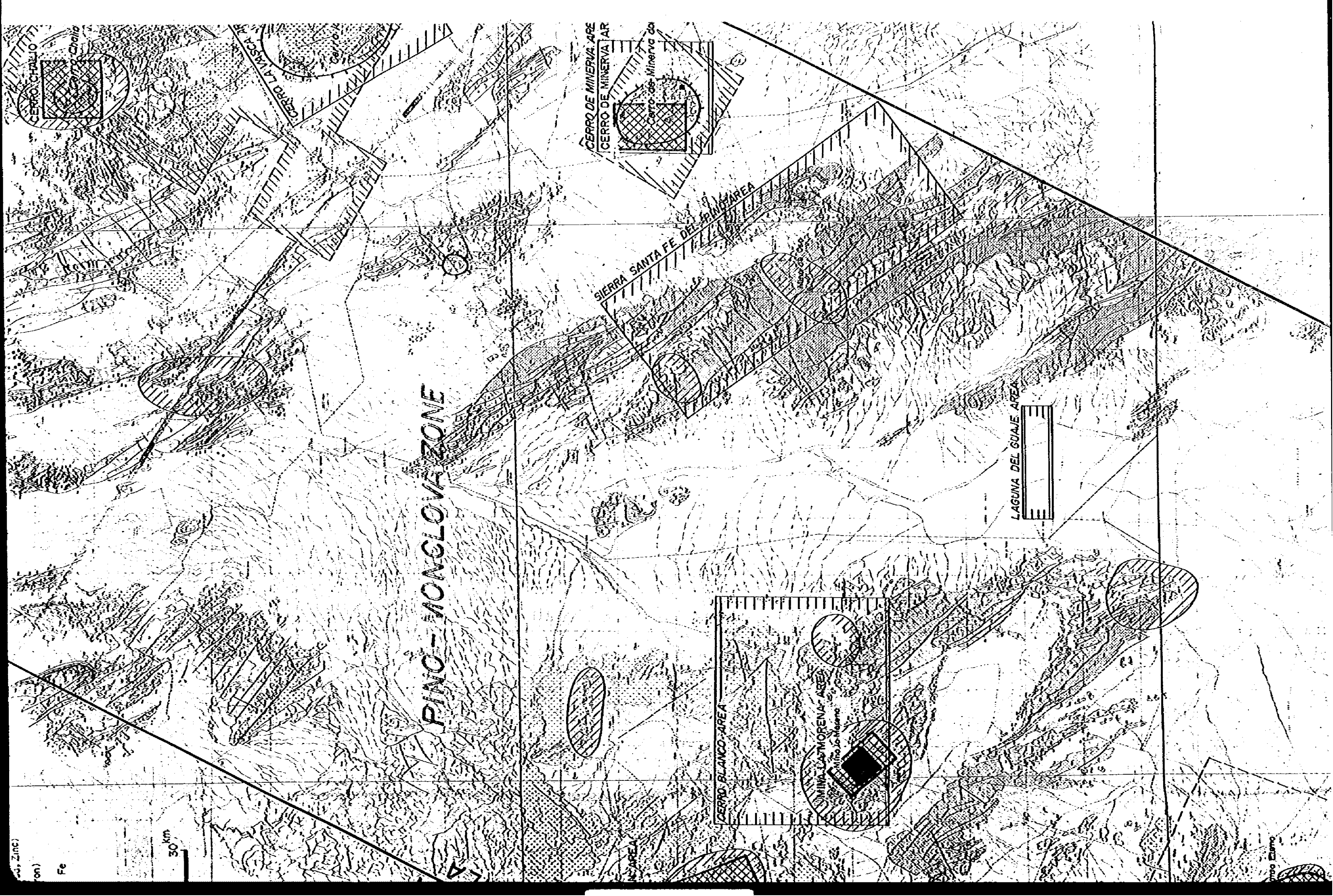
S
 elastics
 Rhyolitic
 Andesitic
 Basaltic
 Sandstone
 shale
 siltstone
 Fluorite)
 Lead, Zinc)
 Iron)
 Fe

30 km

Fe, Zinc

Fe

30 km



PING-MONGLOVA ZONE

CERRO DE MINERVA AREA
 CERRO DE MINERVA AR
 Cerro de Minerva da

SIERRA SANTA FE DEL PRINCIPADO

CERRO BLANCO AREA
 MINA LA MORENA AREA
 Cerro de Minerva da

LAGUNA DEL GUAJE AREA

SIERRA



LAGUNA DEL GUAJE AREA



MINI-LA MORENA AREAS



GEOWA-ZONE

103°00'

09°30'

GEOLOGICAL MAP OF

LEGEND

- Recommended Dome Structure
- Survey District
- Semi-detailed RECOMMENDED
- Recommended
- Ag. Pb, Zn Mine
- Fe, Mn Mine
- Fluorite Mine

- | Intrusive Rocks | | Extrusive Rocks | |
|-----------------|------------|-----------------|--------------|
| Syenite | Porphyry | Lava | Pyroclastics |
| Monzonite | Porphyrite | Rhyolite | Rhyolitic |
| Adamellite | Dolerite | Dacite | Andesitic |
| Diorite | Rhyolite | Andesite | Basaltic |
| Gabbro | Andesite | Basalt | |
| | Basalt | | |

Sedimentary Rocks

- | | |
|-------------------------|------------------------------------|
| Quaternary | Alluvium |
| Tertiary | sandstone |
| Upper Cretaceous System | sandstone, silty clay |
| Lower Cretaceous System | marl, clay, limestone, sandstone |
| Mesozoic | chalk, flaggy limestone |
| | limestone, marl |
| | limestone |
| | clay, shale, limestone |
| | massive limestone |
| | marl, mudstone, limestone |
| | limestone |
| | limestone, marl |
| | limestone |
| | clay, shale, limestone |
| | massive limestone |
| | marl, mudstone, limestone |
| | limestone |
| | limestone, marl |
| | limestone, marl, siltstone |
| | limestone, marl, siltstone |
| | conglomerate, sandstone, siltstone |
| | crystalline schist |

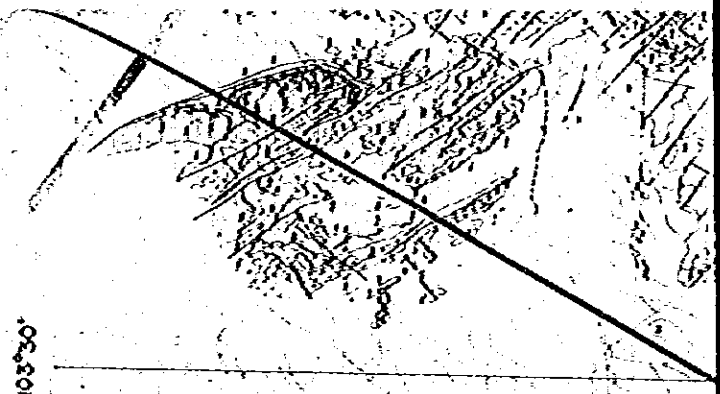
- | | | | |
|--|---|--|------------------------|
| | Geologic boundary | | Fault, observed |
| | Bedding (measured)
inclined, vertical, horizontal | | Fault, estimated |
| | Bedding (estimated)
inclined, vertical, horizontal | | Anticlinal axis |
| | Geologic profile line | | Synclinal axis |
| | Limits of project area | | Dome structure |
| | | | Small dyke |
| | | | Shaft |
| | | | Mine site (Fluorite) |
| | | | Mine site (Lead, Zinc) |
| | | | Mine site (Iron) |
| | | | Showing of Fe |
| | | | Adit |

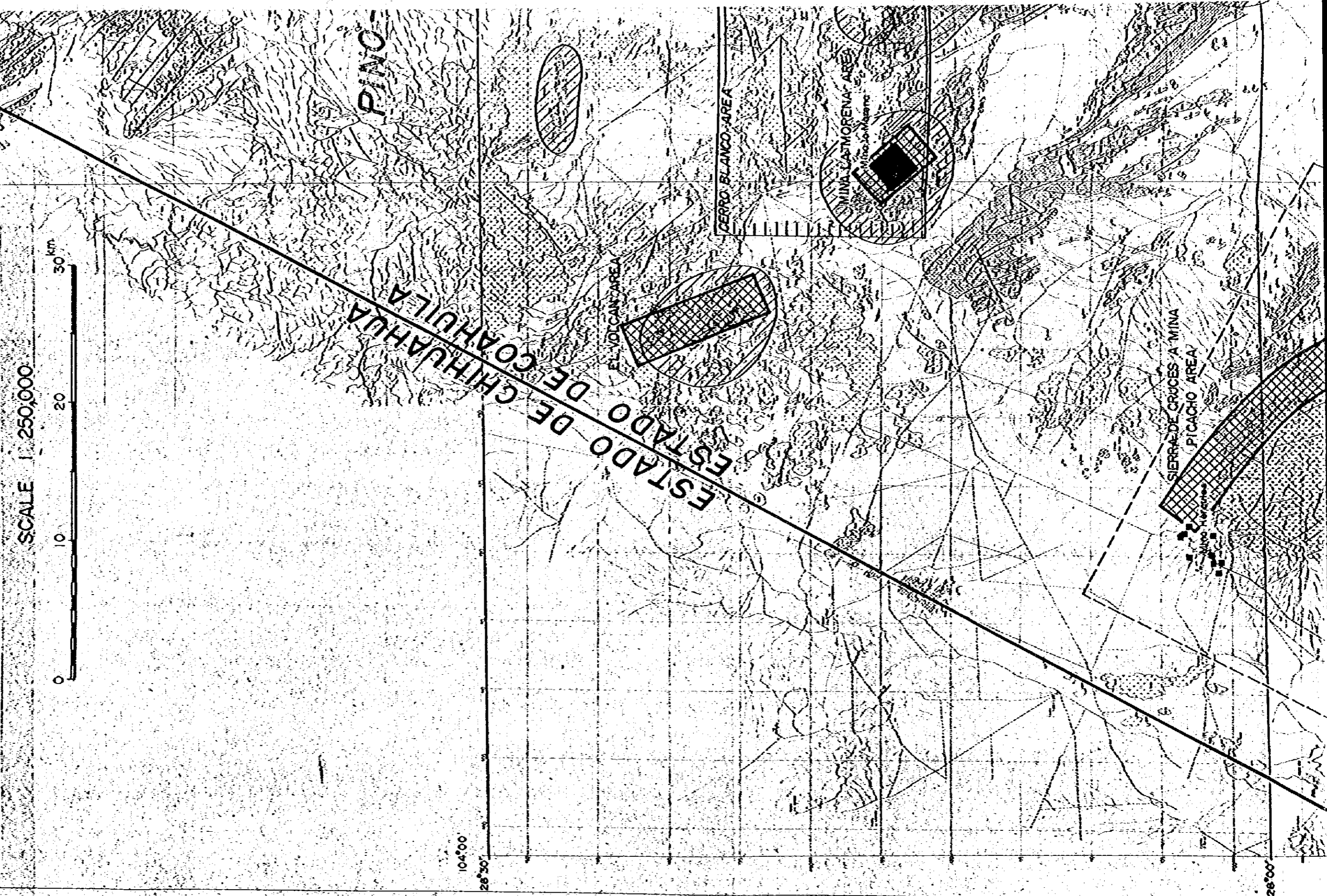
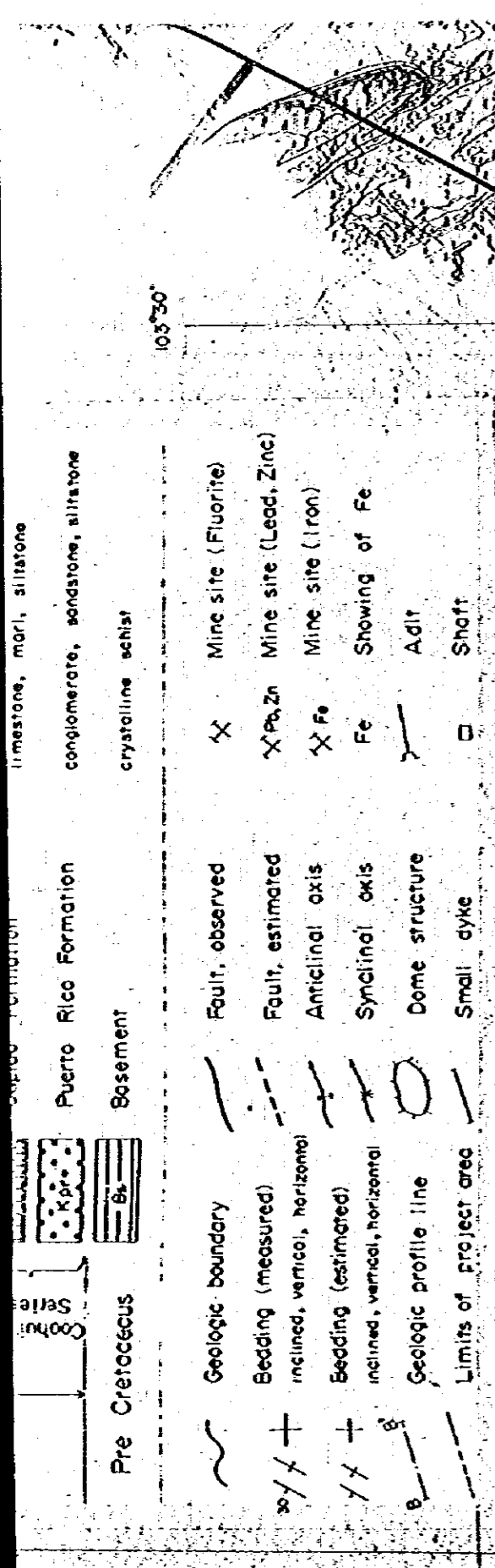
SCALE 1:250,000

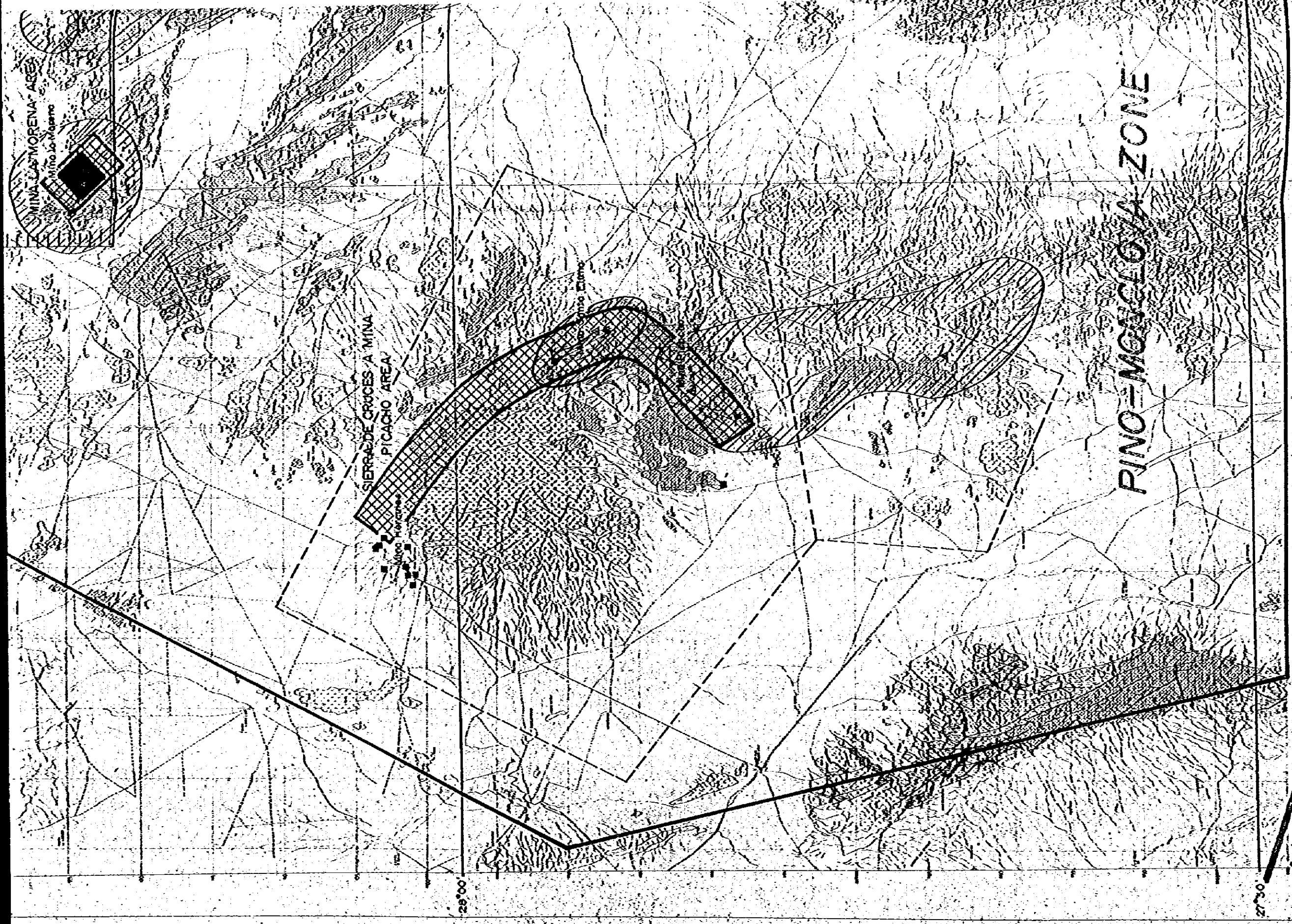


29°00'

103°30'







MINA CASTORENA AREA
Mina La Mojada

SIERRA DE CRUCES A MINA
PICACHO AREA

MINA ESTERNO

RINO-MONCLOVA ZONE

MULA-MOJADA ZONE

29°00'

27°30'

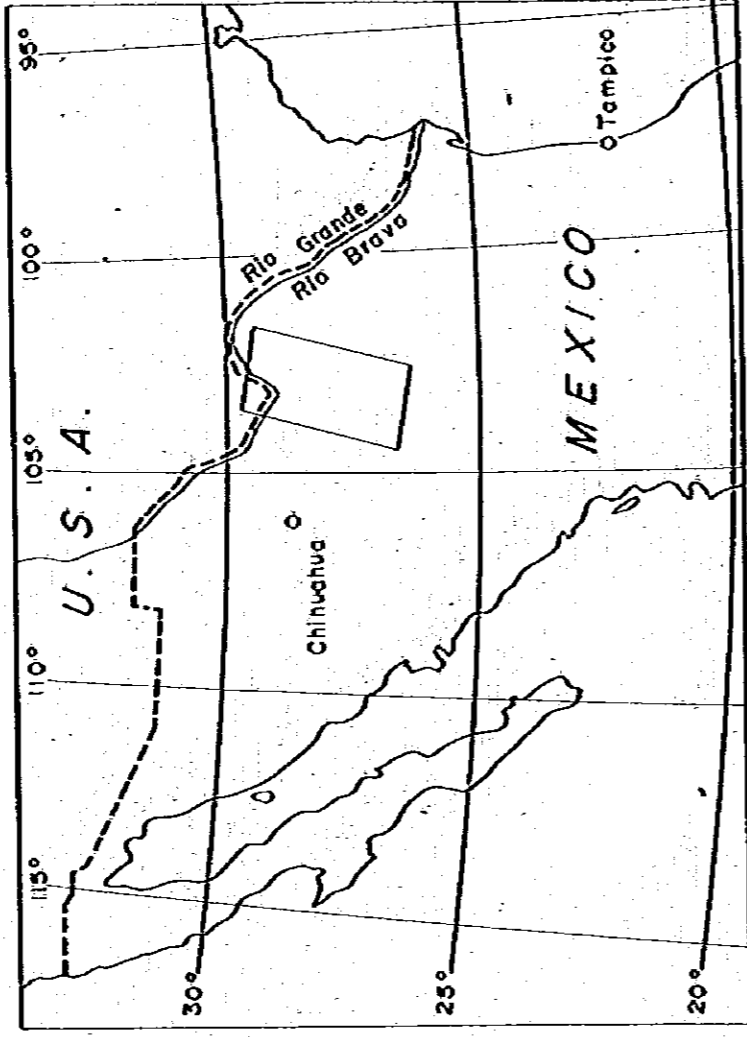
104°00'

103°30'

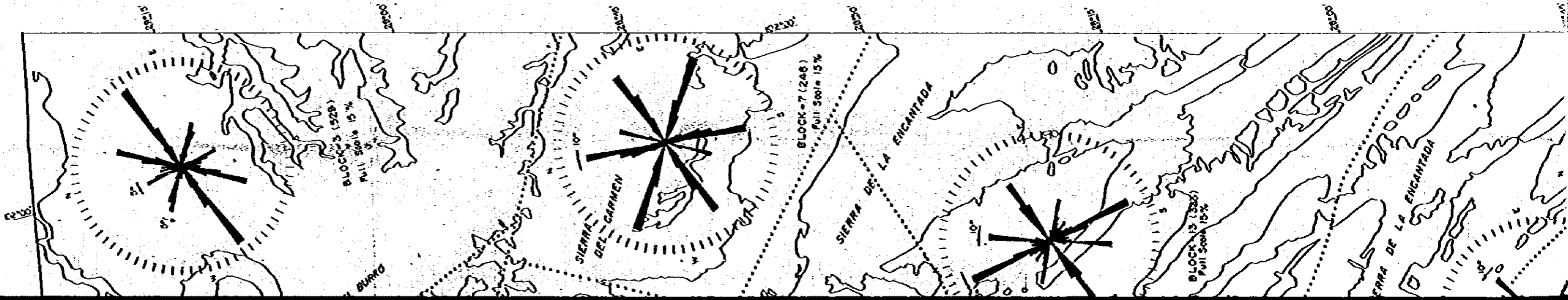
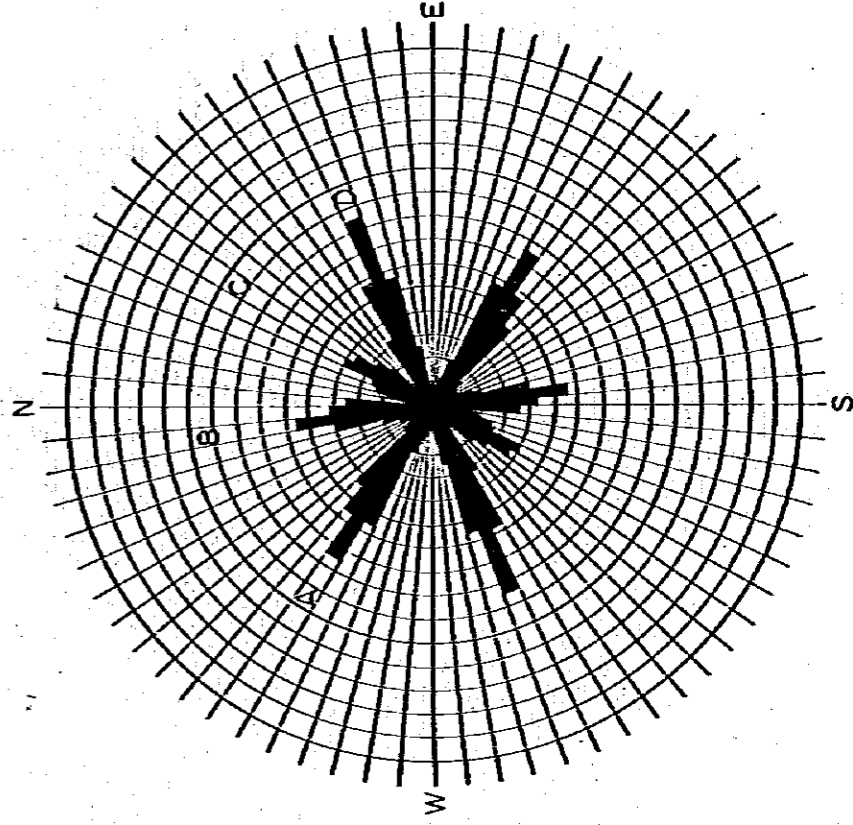
GEOLOGICAL SURVEY
OF
THE COAHUILA AREA, NORTHERN MEXICO
PHASE II

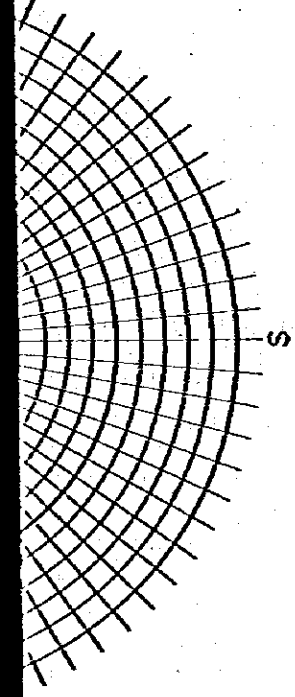
ROSE DIAGRAM OF LINEAMENT IN 31 BLOCKS

1 : 500,000



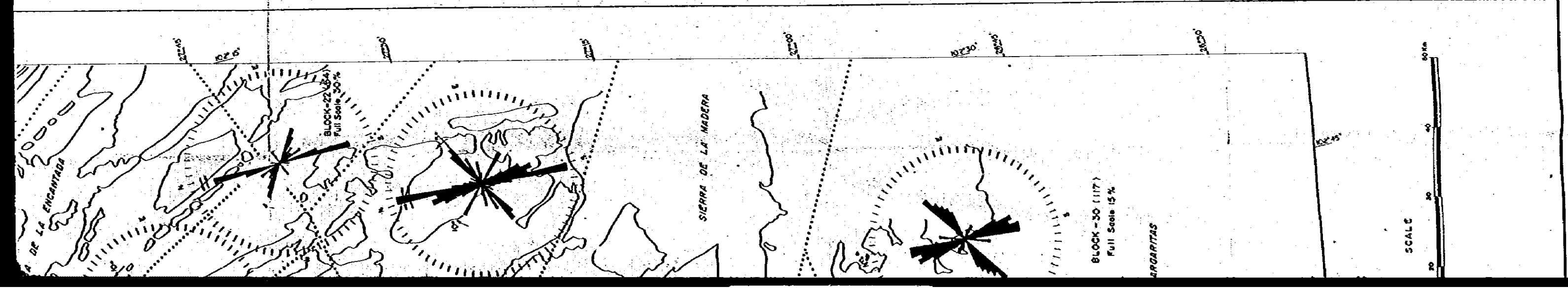
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL CO-OPERATION AGENCY
GOVERNMENT OF JAPAN
COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES
DE MEXICO
MARCH 1977



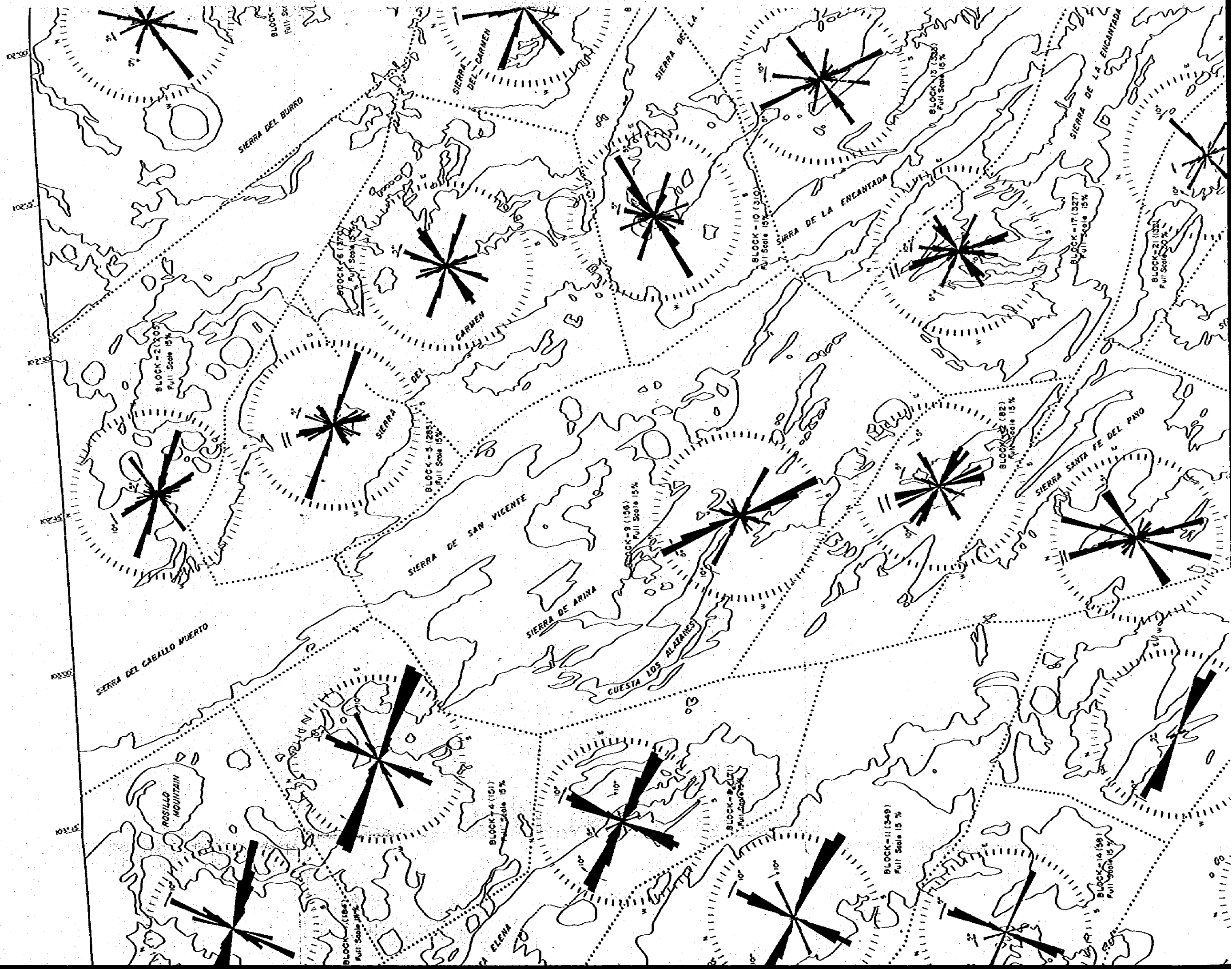


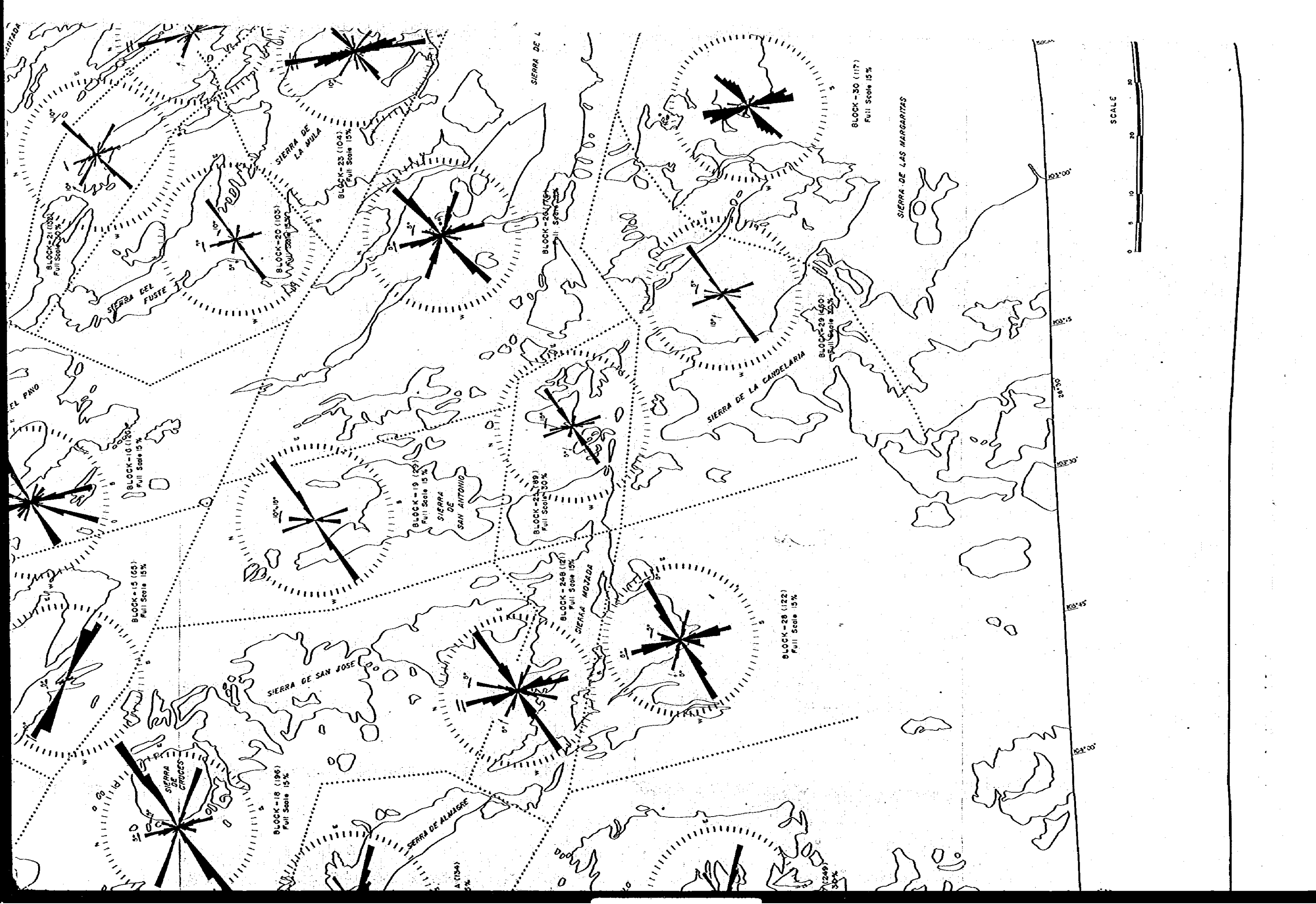
WHOLE AREA (5742 Number of lineaments)
 Full Scale 15%

Arrows on the rossets indicate declination
 from the peaks of lineaments — A, B, C, D, in whole area



PL-IV-1 ROSE DIAGRAM OF LINEAMENT IN 31 BLOCKS





SIERRA DE LA MULA

SIERRA DEL FUSTE

SIERRA DE LA MULA

SIERRA DE SAN ANTONIO

SIERRA DE SAN JOSE DO

SIERRA DE ALMAGRE

SIERRA DE CRUCES

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

BLOCK-21 (103)
Full Scale 30%

BLOCK-20 (103)
Full Scale 15%

BLOCK-19 (20)
Full Scale 15%

BLOCK-18 (196)
Full Scale 15%

BLOCK-15 (65)
Full Scale 15%

BLOCK-10 (180)
Full Scale 15%

BLOCK-23 (104)
Full Scale 15%

BLOCK-22 (189)
Full Scale 30%

BLOCK-24 (121)
Full Scale 15%

BLOCK-25 (104)
Full Scale 15%

BLOCK-26 (178)
Full Scale 30%

BLOCK-29 (450)
Full Scale 30%

BLOCK-28 (122)
Full Scale 15%

BLOCK-30 (117)
Full Scale 15%

BLOCK-24 (189)
Full Scale 30%

BLOCK-25 (104)
Full Scale 15%

BLOCK-26 (178)
Full Scale 30%

BLOCK-27 (189)
Full Scale 30%

BLOCK-28 (122)
Full Scale 15%

BLOCK-29 (450)
Full Scale 30%

SIERRA DE L

SIERRA DE LAS MARGARITAS

SIERRA DE LA CANDELARIA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

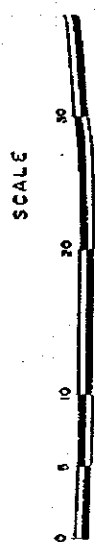
SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA

SIERRA DE LA MULA



SCALE

PL-IV-1 ROSE DIAGRAM OF LINEAMENT IN

