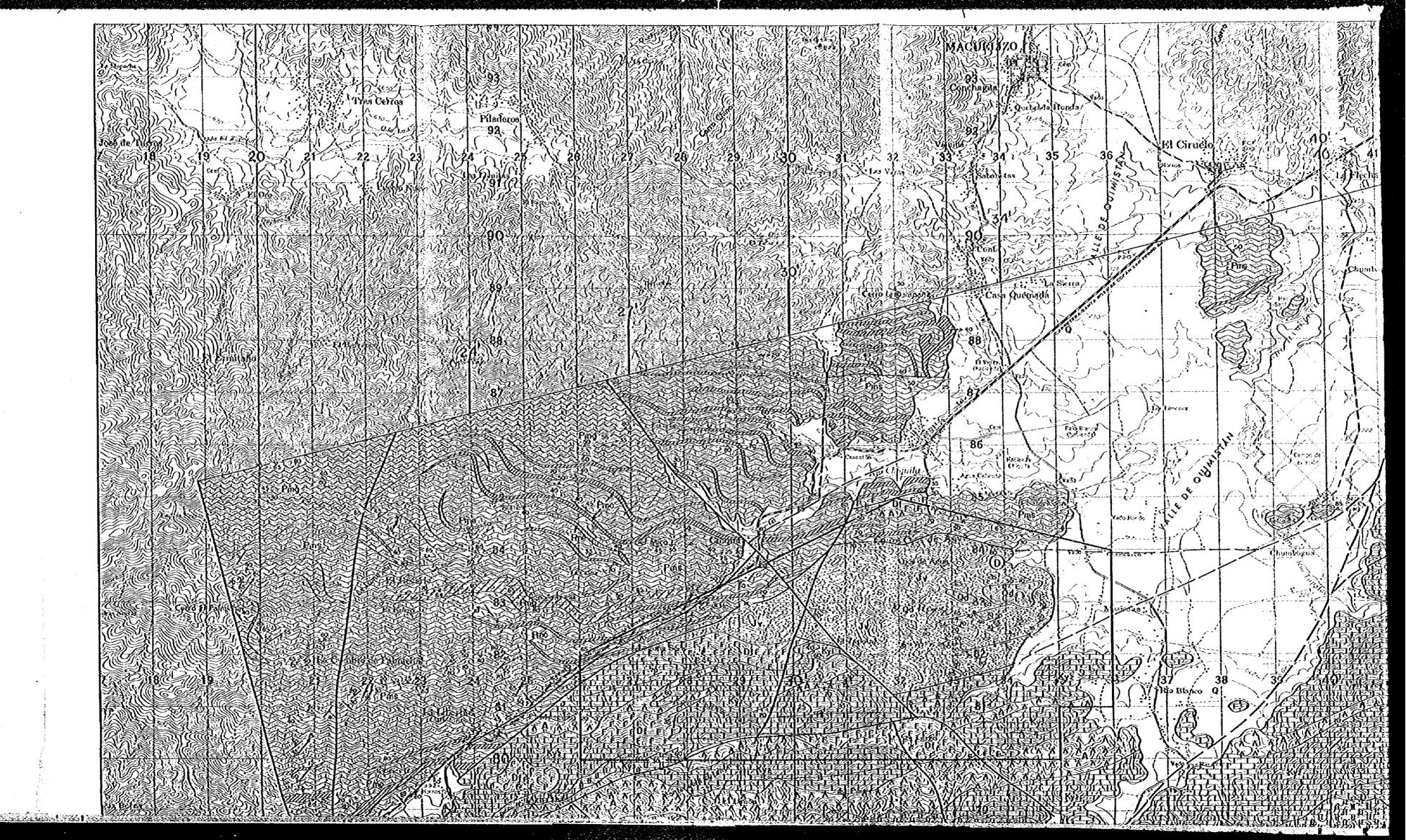
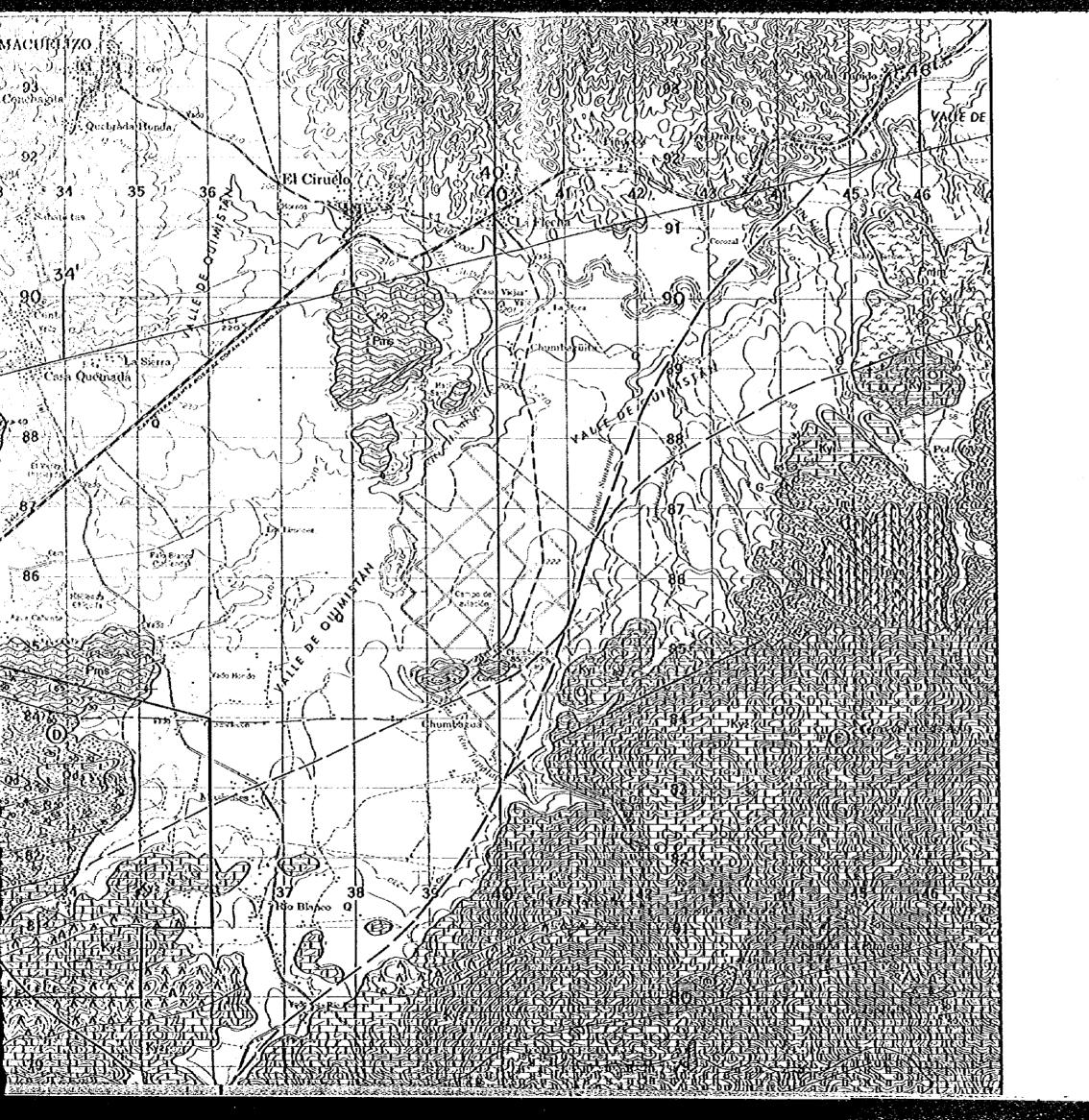


## List of Plate

| PL. 1 = 1            | Geological Map of the General Surveyed Area<br>(Western Part) Scale 1 : 50,000   |
|----------------------|--|
| PL: 1 + 2            | Ceological Map of the General Surveyed Area<br>(Eastern Part) Scale 1: 50,000    |
| PL: 1 = 3            | Geological Profiles of the General Surveyed Area<br>Scale 1: 50,000              |
| PL: 111-1-1          | "我们,我们是这一个大学的数据,我们就是我们的,我们就是我们的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就 |
| PL. III- <u>I-</u> 2 | Geological Kap of the Laguna Seca Sector   |
| PL: 111-1-3          | Scale 1: 5,000<br>Geological Map of the Minitas Sector                           |
| PL- 111-1-4          | Scale 1 : 5,000<br>Geological Map of the Pueblo Nuevo Sector                     |
| PL. 111-1-5          | Scale 1 : 5,000<br>Geological Profiles of the Yueltas del Rio Sector             |
| PL. 111-1-6          | Scale 1: 5,000<br>Geological Profiles of the Laguna Seca Sector                  |
| PL, 1111-1-7         | Scale 1 : 5,000  |
|                      | Geological Profiles of the Minitas Sector<br>Scale 1: 5,000                      |
| PL. 111-1-3          | Geological Profiles of the Pueblo Nuevo Sector<br>Scale 1 : 5,000                |
| PL. 111-1-13         | Geological Sketch of the Hacutalo Outcrop in the Minitas Sector Scale 1: 2,000   |
| PL. 111-1-18         | Geochemical Map by UNDP in the Yueltas del Rio contar                            |

Scale 1: 5,000





PL. 1-1

GEOLOGICAL SURVEY

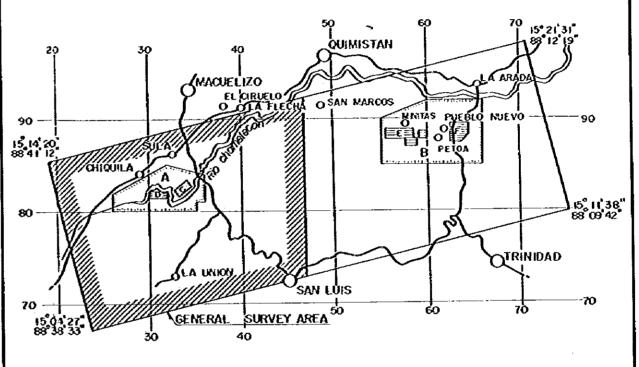
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THE WESTERN AREA, REPUBLIC OF HONDURAS

PHASE I

## GEOLOGICAL MAP OF THE GENERAL SURVEYED AREA

(WESTERN PART)



AREA OF SEMIDETAILED SURVEY B AREA OF SEMIDETAILED SURVEY (Peloo Area)

AREA OF DETAILED SURVEY (Vietos del Rio Sector)

AREA OF DETAILED SURVEY
(Zopotol II Sector)

AREA OF DETAILED SURVEY
(Minitos Sector)

AREA OF DETAILED SURVEY (Pueblo Nuevo Sedor)

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

GOVERNMENT OF JAPAN

1978 JANUARY

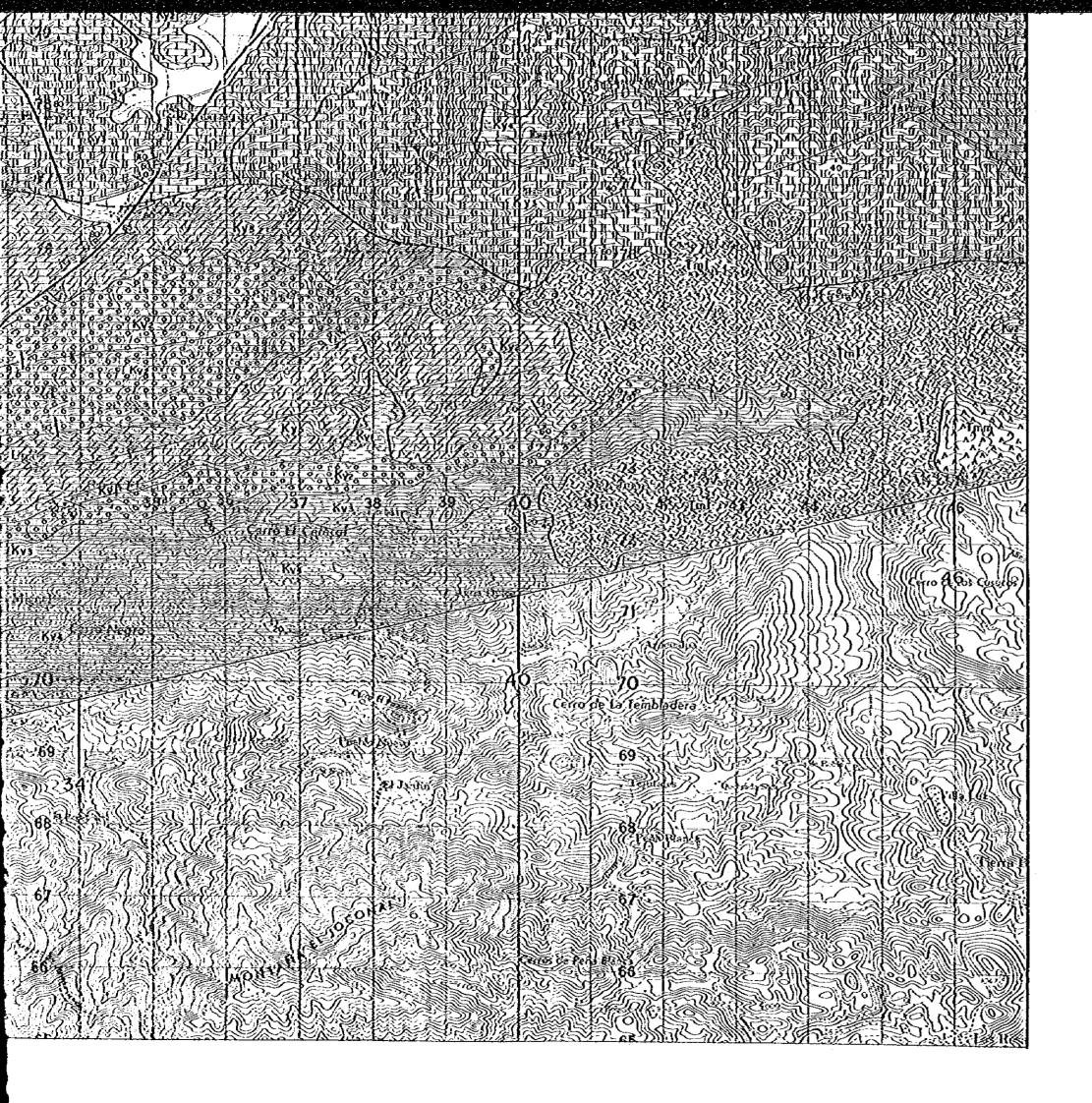
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1:50,000 Scole 3000 4000 5 000m

| C              |  | Stratigraphical  | Lilbataau |
|----------------|--|--|-----------|
| Geological age |  | Mark Symbol  | Lilhology |
|                | ACCUMENT TO COMPLETE AND DESCRIPTIONS OF | Burn and the first of the said |           |

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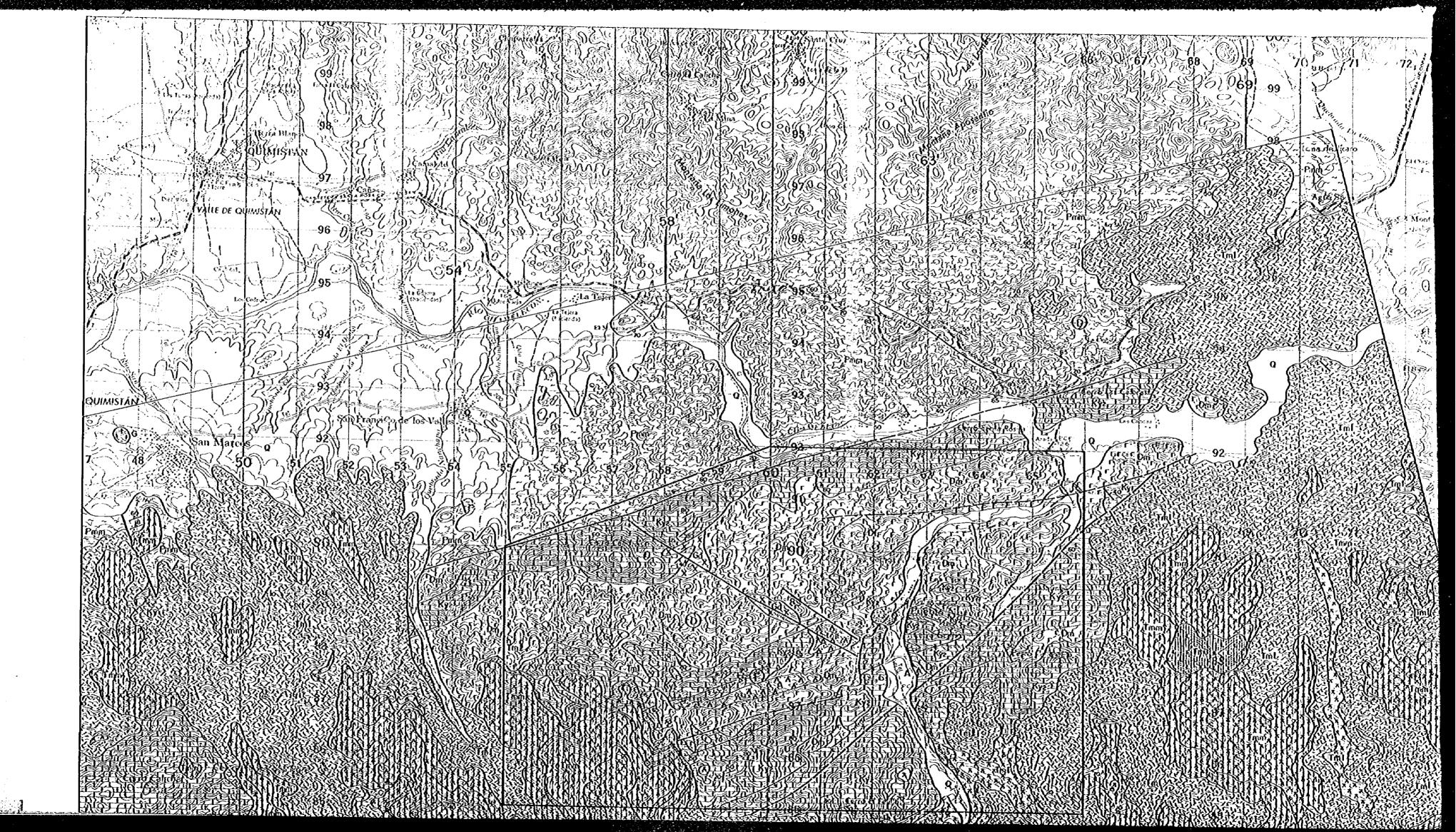


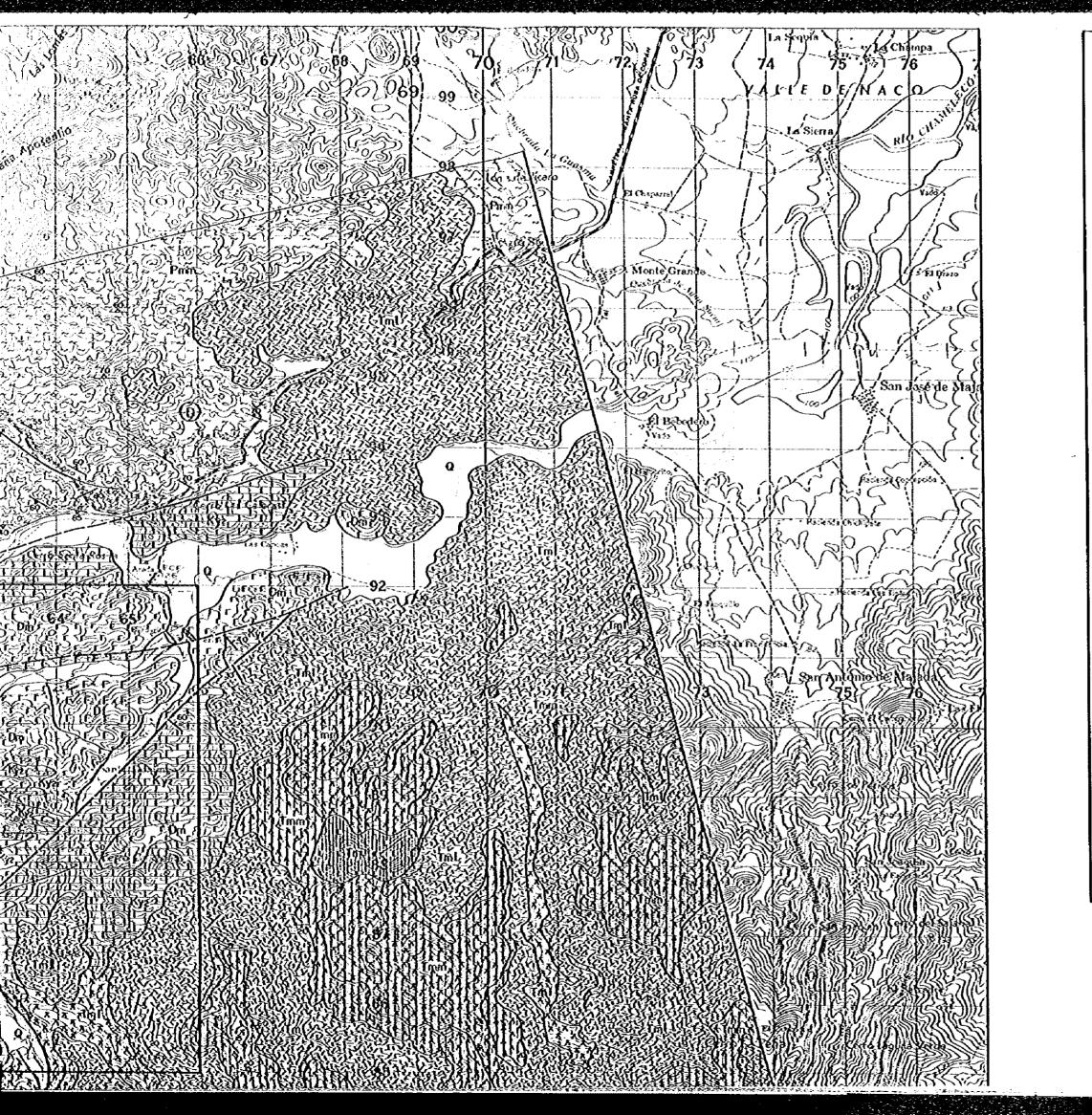
| Geológical oge |            | Formation |                 | Stratigraph<br>Mark | icol<br>Symbol   | Lithology       |  |      |  |
|----------------|------------|-----------|-----------------|---------------------|--|-----------------|--|------|--|
|                | Qualernory |           |                 | Attuvium            |  | Q               | gravel , sand , clay   |      |  |
| Ų              | Terliory   |           | P               | odre Miguel F.      | A A A A A A A A A A A A A A A A A A A  | Тр              | andesite, sedimentary rocks  |      |  |
| CENOZOIC       |            |           | М               | atagalpa F.         |  | Tm              | rhyolite  pyroclastic rocks (lower, middle, upper)  andesite (lower, middle, upper)  basait (lower, middle, upper) |      |  |
|                |            |           |                 |                     |  | Kv <sub>4</sub> | shole, sandstone, timestone  |      |  |
|                | ٠          |           | ļ.,             |                     |  | Kv <sub>3</sub> | shole  |      |  |
|                |            | Upper     | Vo              | ille de Angeles F.  | 7 0 8 0 8 0 2 9 5<br>1 0 0 0 0 0 2 9 5<br>1 0 0 0 0 0 2 9 5<br>1 0 0 0 0 0 0 0 | Kv <sub>2</sub> | limestone, conglometate  |      |  |
|                |            |           |                 |                     |  | KA1             | sandstone, shale, timestone  |      |  |
| 2010           | Creigeous  |           |                 |                     |  | Ky <sub>5</sub> | bonded limestone, shale  |      |  |
| E 80           |            |           | Group           | Guore F             |  | Ky₄             | shale, banded limestone  |      |  |
| Σ              |            | e.        |                 |                     |  | Ky <sub>3</sub> | banded limestone, shale, minor sandstone   |      |  |
|                |            | Lowe      | Yo jo a         | Átimo F.            |  | Куг             | mossive limestone, minor shale   |      |  |
|                | _:         |           |                 | Conferrance F.      |  | Ку              | shale, massive 8 banded limestone  |      |  |
|                | Jurassic   |           | ¥۷              | eltos del Rio F.    |  | Ĵγ              | shate, meta volcanics, pyroclastics, phylite, diabase  |      |  |
|                |            |           |                 |                     |  | Pms             | sericite schist (predominant)  |      |  |
| 0              |            |           |                 |                     |  | Prog            | sericite – graphite schist (predominant)   |      |  |
| LEOZ           |            |           |                 | Group<br>Group      |  | Prr.e           | epidole-chlorile schist  |      |  |
| PAL            |            |           |                 |                     |  |                 | ######################################   | Pric | calcareous schist, crystalline timestone |
|                |            |           |                 |                     |  | Prob            | biotite-hornblende schist  |      |  |
|                | I          |           | _               |                     |  | Perm            | biolite-muscovite schist, gneiss   |      |  |
|                |            |           |                 |                     | + + + + + + + + + + + + + + + + + + +  | G               | granite  |      |  |
|                |            |           |                 |                     | x x x x x x x x  | Gd              | gronodiorite<br>diorite (medium – groined),  |      |  |
| :              |            |           |                 |                     |  | Dm .            | meta volcanics, pyrāclastics   |      |  |
|                | ·          |           | Intrusive rocks |                     | (YXXXXXXXX)  | Df<br>A         | diorite (fine-grained)   |      |  |
|                |            |           |                 |                     | *********  | D               | andesite<br>diabase (doterite)   |      |  |
|                |            |           |                 |                     | t L L L L L L  | Qd              | quartz - diorife porphyry  |      |  |
| L              |            |           |                 |                     | t t t t t  | 7,              | distill horbidia   |      |  |

bedding 45 40 schislosity

geological profile line

locality of age determination





GEOLOGICAL SURVEY

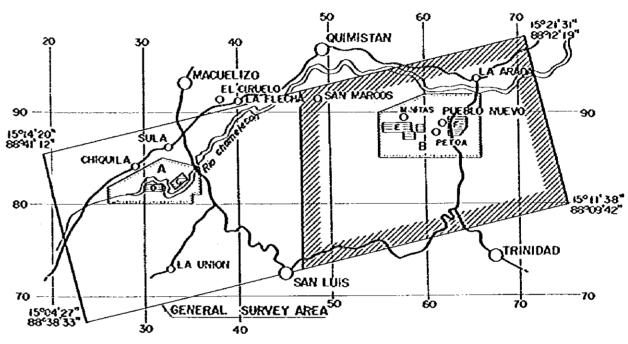
OF

THE WESTERN AREA, REPUBLIC OF HONDURAS

PHASE I

## GEOLOGICAL MAP OF THE GENERAL SURVEYED AREA

(EASTERN PART)



AREA OF SEMIDETAILED SURVEY (Characteron Area) AREA OF SEMIDETAILED SURVEY (Peloo Area)

AREA OF DETAILED SURVEY (Vuetas del Rio Sector)

AREA OF DETAILED SURVEY
(Zapotot II Sector)

AREA OF DETAILED SURVEY
(Minitian Sector)

AREA OF DETAILED SURVEY (Pueblo Nuevo Sedor)

METAL MINING AGENCY OF JAPAN JAPAN INTERNATIONAL COOPERATION AGENCY GOVERNMENT OF JAPAN

Stratiarophical

1978 JANUARY

prepared by MESCO, INC.

Scale | 1 : 50,000 1000 2000 3000 4000



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| Geological age |            | Formation |                    | Stratigraph<br>Mark      | icol<br>Symbol                          | Lithology                 |   |
|----------------|------------|-----------|--------------------|--------------------------|---|---------------------------|---|
|                | Quoternory |           |                    | Alluyium                 |   | Q                         | gravel , sond , clay  |
| 0              | Terfiory   |           | P                  | adre Miguel F.           | A A A A A A A A A A A A A A A A A A A   | Тр                        | andesite, sedimentary rocks   |
| CENOZOIC       |            |           | Matagolpa F.       |                          | Tm1 Tmm Imu                             | Tm                        | rhyotite  pyroctastic rocks (lower, middle, upper)  andesite (lower, middle, upper) |
|                |            |           |                    |                          | A AK I DE I                             |                           | bosalt (lower, middle , usper )   |
|                |            |           |                    |                          |   | Kv4                       | shate, sandstone, limestone   |
|                |            |           | /ر                 | ille de Angéles F.       |   | Ку₃                       | shole   |
|                |            | pper      | <b>,</b>           | me de Algeies I.         | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Kv <sub>2</sub>           | timestone , conglometate  |
|                |            | 2         |                    |                          |   | Kv:                       | sandslöne, shale, timestone   |
| 2010           | aceco's 12 |           |                    |                          |   | Ky <sub>5</sub>           | banded limestone, shate   |
| ESO            |            |           | Group              | Guare F.                 |   | Ky <sub>4</sub>           | shale, banded limestone   |
| W.             |            | r<br>E    |                    |                          |   | Ky <sub>3</sub>           | banded timestone shale minor sondstone  |
|                |            | Lowe      | Yo joa             | Atimo F.                 |   | Ky2                       | massive limestone, minor shate  |
|                |            |           |                    | Cortarranas F.           |   | Ку                        | shole, massive 8 banded timestone   |
|                | Jurossic   |           | Vueitas del Rio F. |                          |   | Jv                        | shate, meta volcanics, pyroclastics, phylite, diabase                               |
|                |            |           |                    |                          |   | Pms                       | sericite schist (predominant)   |
| ပ္             |            |           |                    |                          |   | Pmg                       | sericite—graphite schist (predominant)  |
| EOZO           |            |           |                    | iquila-La Arada<br>Group |   | Ртте                      | epidote-chlorite schist   |
| PALE           |            |           | 0.000              |                          |   | Pmc                       | cateareaus schist, crystalline limestone  |
| H.             |            |           |                    |                          |   | Pmb                       | biolite-hornblende schist   |
|                |            |           |                    |                          |   | Pmm                       | biotite-muscovite schist, gneiss  |
|                |            |           |                    |                          | † + + + + +<br>+ + + + +                | G                         | granite   |
|                |            |           |                    |                          | * * * * * * * * * * * * * * * * * * *   | Gd                        | granodiarite  |
|                |            |           | Intrusive rocks    |                          |   | Ðm                        | diorite (medium - grained),<br>meta volcanics, pyroclastics                         |
|                |            |           |                    |                          | k                                       | Df                        | diorite (fine-grained)  |
|                |            |           |                    |                          | * * * * * * * *                         | А                         | andesite  |
|                |            |           |                    |                          | \$ \$ \$ \$ \$ \$ \$ \$ \$              | D                         | diabase (dalerite)  |
|                |            |           |                    | *                        | Qđ                                      | quartz - diorite porphyry |   |

bedding

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joint

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foliation
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(F)

geological profile line

locality of determinated fossil locality of age determination sample