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SANZAY

POZUJO

RIO

COMPAÑINA

CULCHURPA

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- 1101-102 GYPSUM RED (LENTHOS) WITHIN
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- 1101-200 GYPSUM RED (LENTHOS) WITHIN

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PL. AB - I (1)

GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL CENTRAL PERU
(PHASE I)

ROUTE MAP OF THE SURVEYED AREA

75°30'W 75°15'W 75°00'W
10°00'S
10°20'S
10°30'S
11°00'S
11°30'S

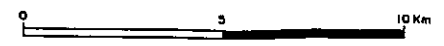
Oskapampa
LA MERCED
SAN RAMON
TARMA

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

FEBRUARY 1976

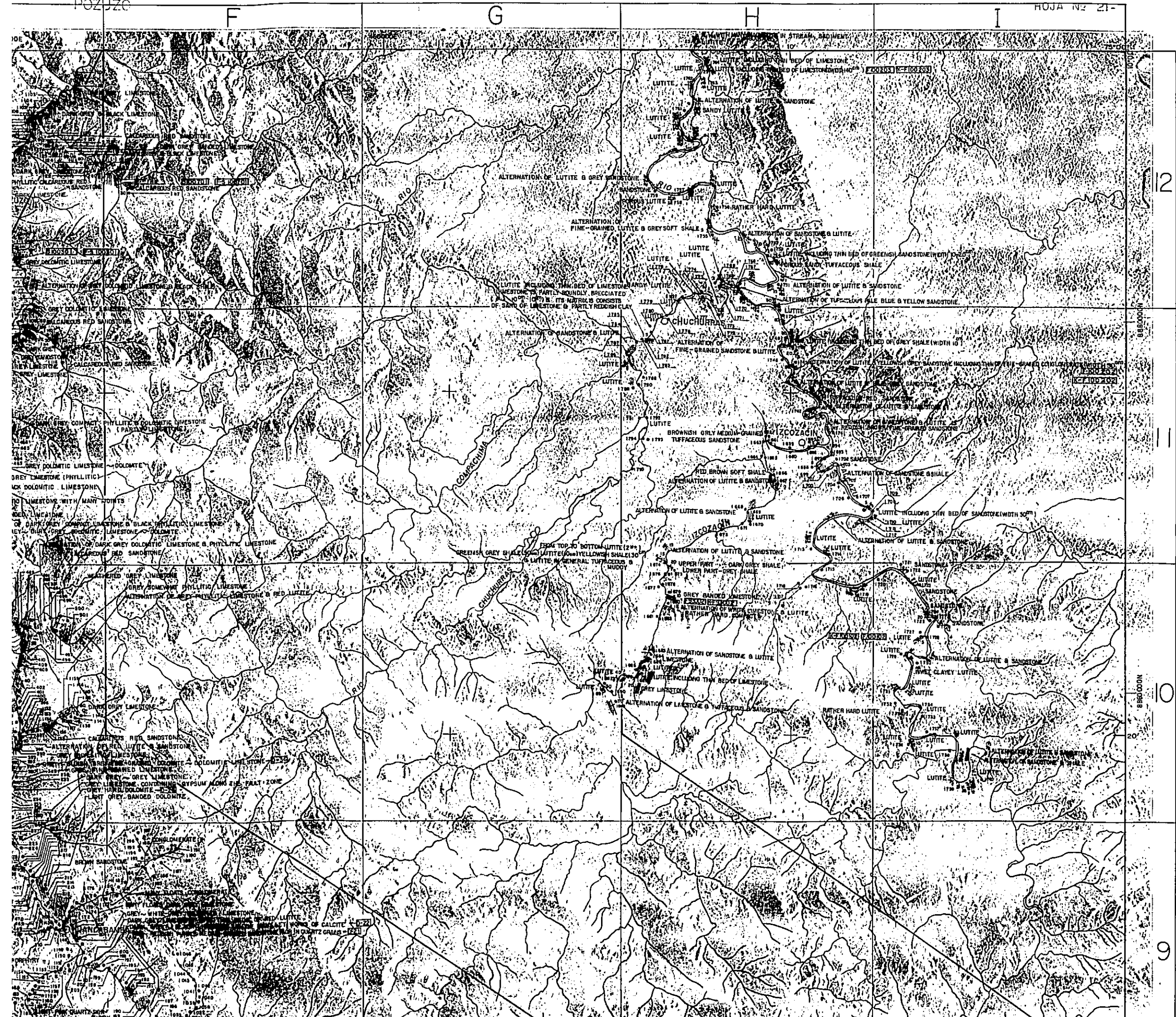
prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

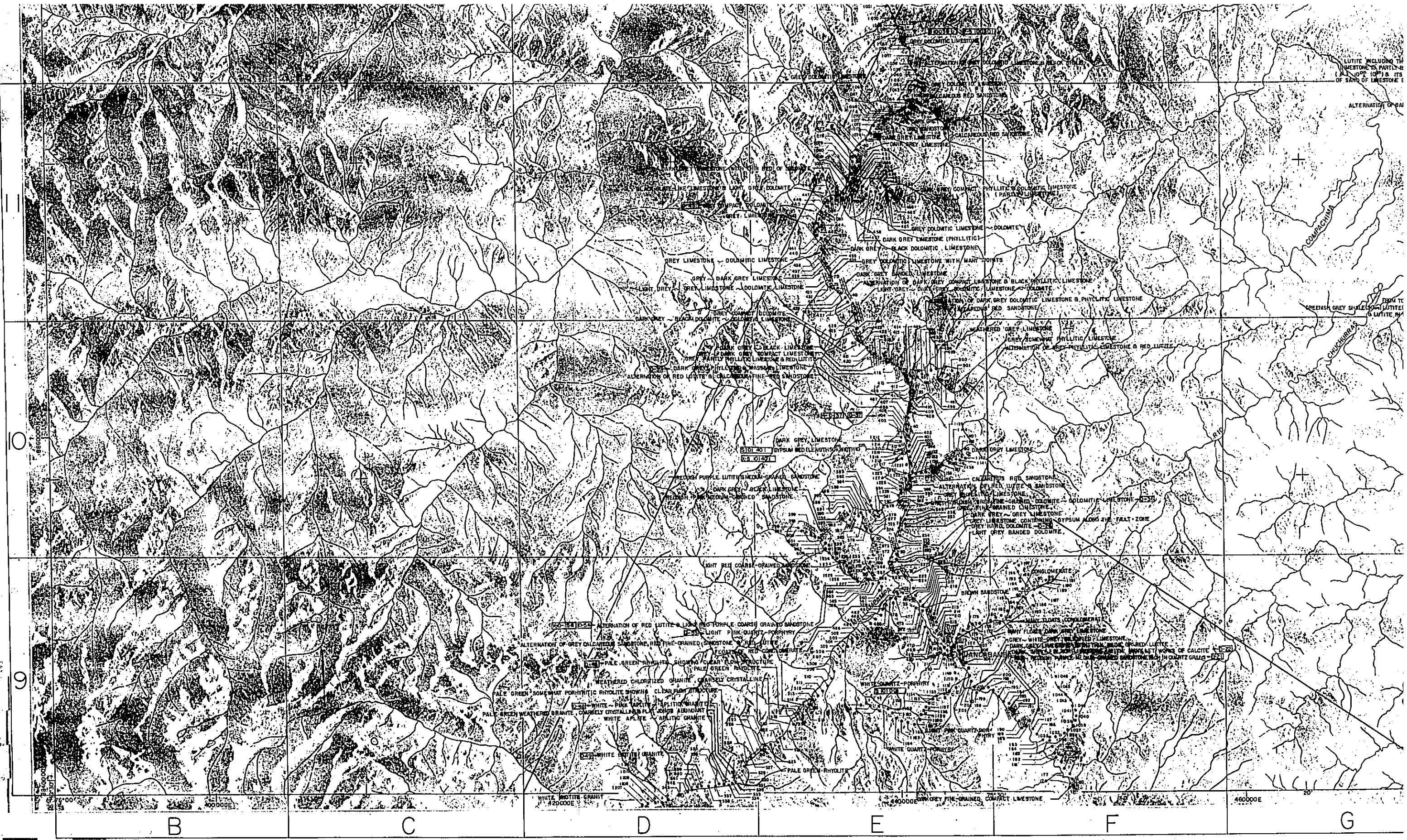
Scale 1:100,000



LEGEND

- | | | | |
|-------------------------|---|---------------------|---|
| SEDIMENTARY ROCK | | IGNEOUS ROCK | |
| | gravel & sand | | volcanic breccia |
| | lutite & shale | | rhyolite & dacite |
| | sandstone | | apite |
| | conglomerate | | porphyrite & andesite |
| | alternation of sandstone & conglomerate | | quartz-porphry & granite porphyry |
| | alternation of shale & sandstone | | micro-granite |
| | limestone | | micro-diorite |
| | dolomite | | granite & granodiorite |
| | phyllite | | altered granitic rock |
| METAMORPHIC ROCK | | ORE DEPOSIT | |
| | schist | | ore deposit |
| | gneiss | | |
| | serpentinite | | |
| | dip & strike | | pyrite etc. dissemination |
| | fissure or joint | | animal fossil locality |
| | schistosity or gneissosity | | plant fossil locality |
| | dyke or vein | | locality & number of soil sample |
| | normal fault | | locality & number of stream sediment sample |
| | thrust fault | | sample for thin section |
| | anticlinal folding axis | | sample for X-ray analysis |
| | synclinal folding axis | | sample of fossil |

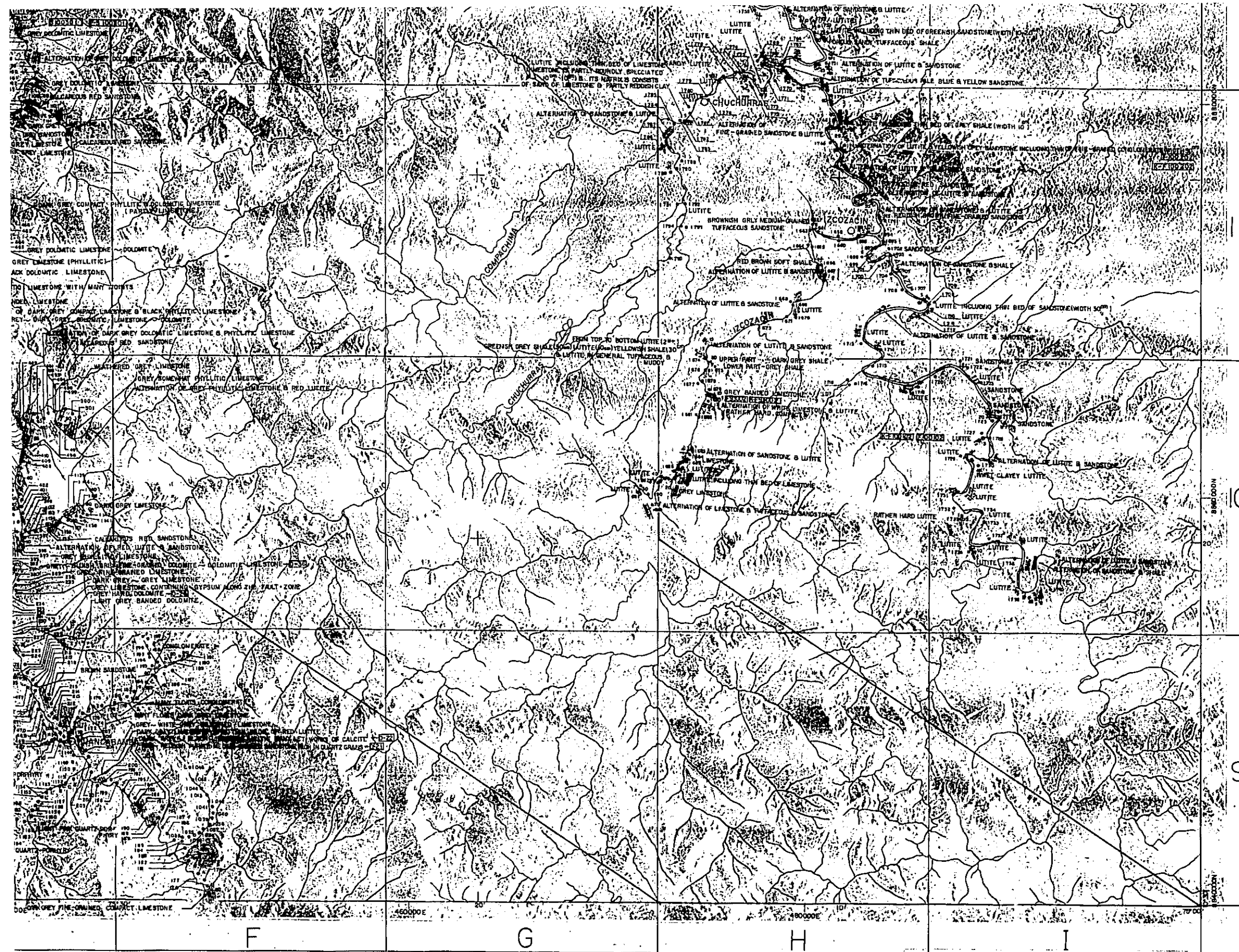




ES PROPIEDAD DEL IGM
 DE PERU. REPRODUCCION PROHIBIDA.

GOODYEAR
 AEROPACH
 AIRCRAFT TYRES

AERO SERVICE
 LIMA



10°20'S
10°30'S
11°00'S
11°30'S

75°45'W 75°15'W 75°00'W

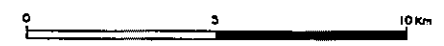
OKARAPPA
LA MERCEDE
SAN RAMON
TARMA

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

FEBRUARY 1976

prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000



LEGEND

- | | | | |
|-------------------------|---|---------------------|--|
| SEDIMENTARY ROCK | | IGNEOUS ROCK | |
| | gravel & sand | | volcanic breccia |
| | lutite & shale | | rhyolite & dacite |
| | sandstone | | apfite |
| | conglomerate | | porphyrite & andesite |
| | alternation of sandstone & conglomerate | | quartz-porphry & granite porphyry |
| | alternation of shale & sandstone | | micro-granite |
| | limestone | | micro-diorite |
| | dolomite | | granite & granodiorite |
| | phyllite | | altered granitic rock |
| METAMORPHIC ROCK | | ORE DEPOSIT | |
| | schist | | ore deposit |
| | gneiss | | |
| | serpentinite | | |
| | dip & strike | | pyrite etc dissemination |
| | fissure or joint | | animal fossil locality |
| | schistosity or gneissosity | | plant fossil locality |
| | dyke or vein | | 2001 - locality & number of soil sample |
| | normal fault | | 2002 - locality & number of stream sediment sample |
| | thrust fault | | F92602 - sample for thin section |
| | anticlinal folding axis | | K-F92603 - sample for X-ray analysis |
| | synclinal folding axis | | F-F92604 - sample of fossil |
| | boundary | | A-F92605 - sample for chemical analysis |
| | | | P-F92606 - sample for polished section |
| | | | D-F92607 - sample for dating |
| | | | K-F92608 - sample for pollen analysis |

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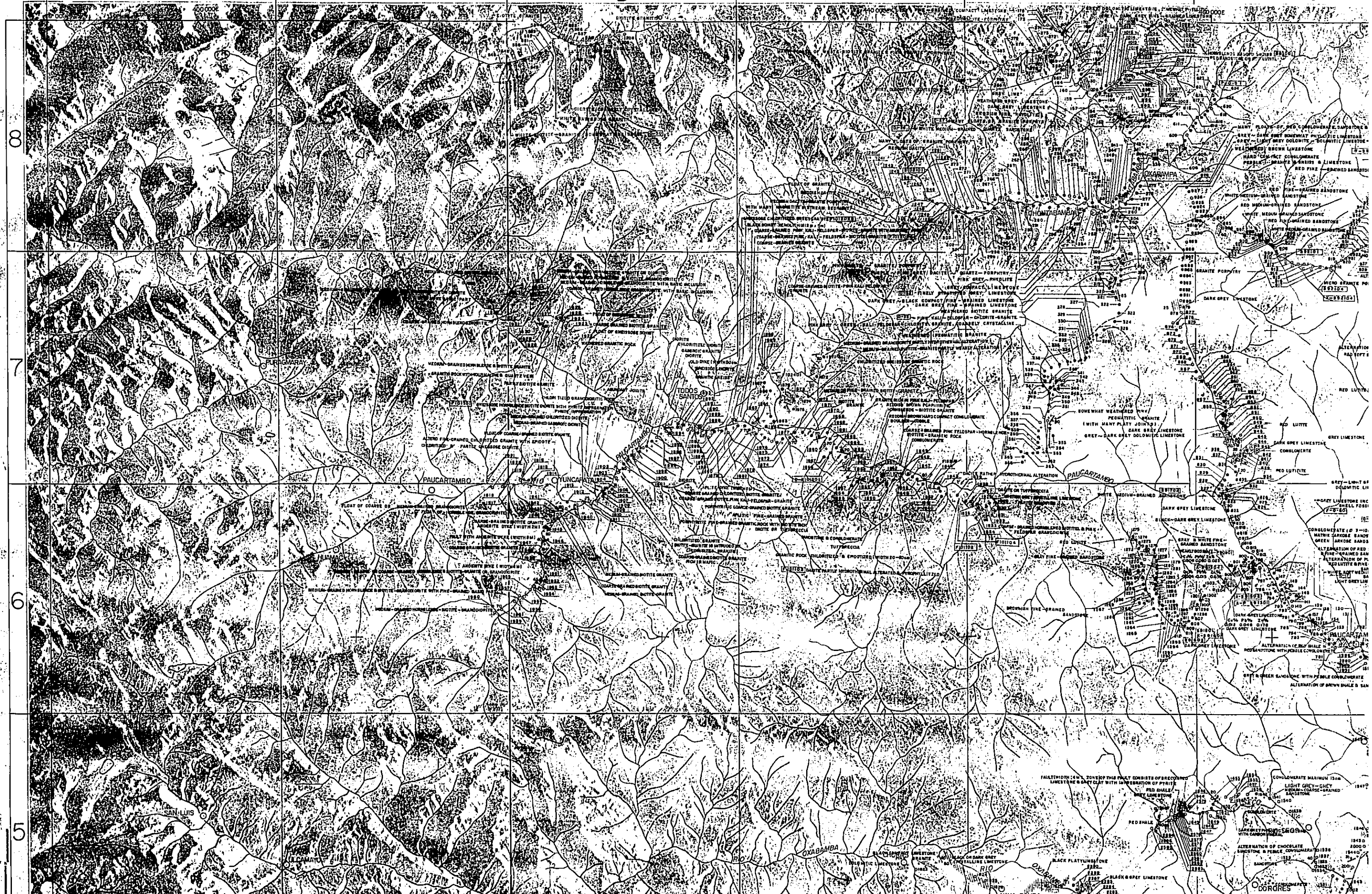
G

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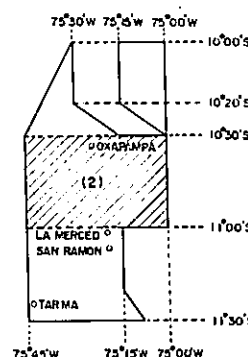


SAN LUIS

OXABAMBA

DOORDRES

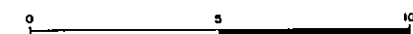
GEOLOGICAL SURVEY OF THE CORDILLERA ORIENTAL CENTRAL PERU (PHASE II) ROUTE MAP OF THE SURVEYED AREA



国際協力事業団 入目 登録No.

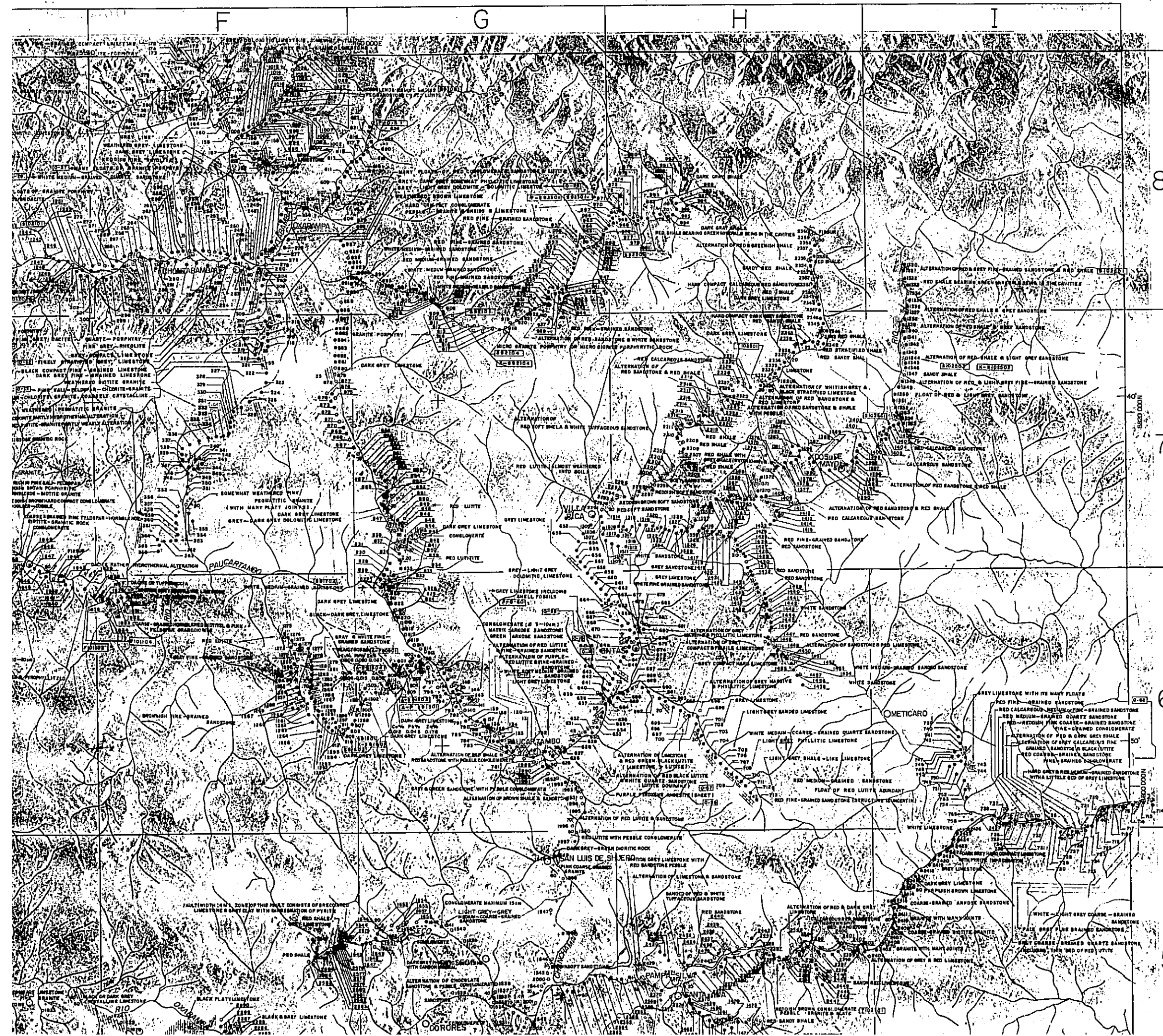
METAL MINING AGENCY OF JAPAN JAPAN INTERNATIONAL COOPERATION AGENCY GOVERNMENT OF JAPAN FEBRUARY 1976 prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

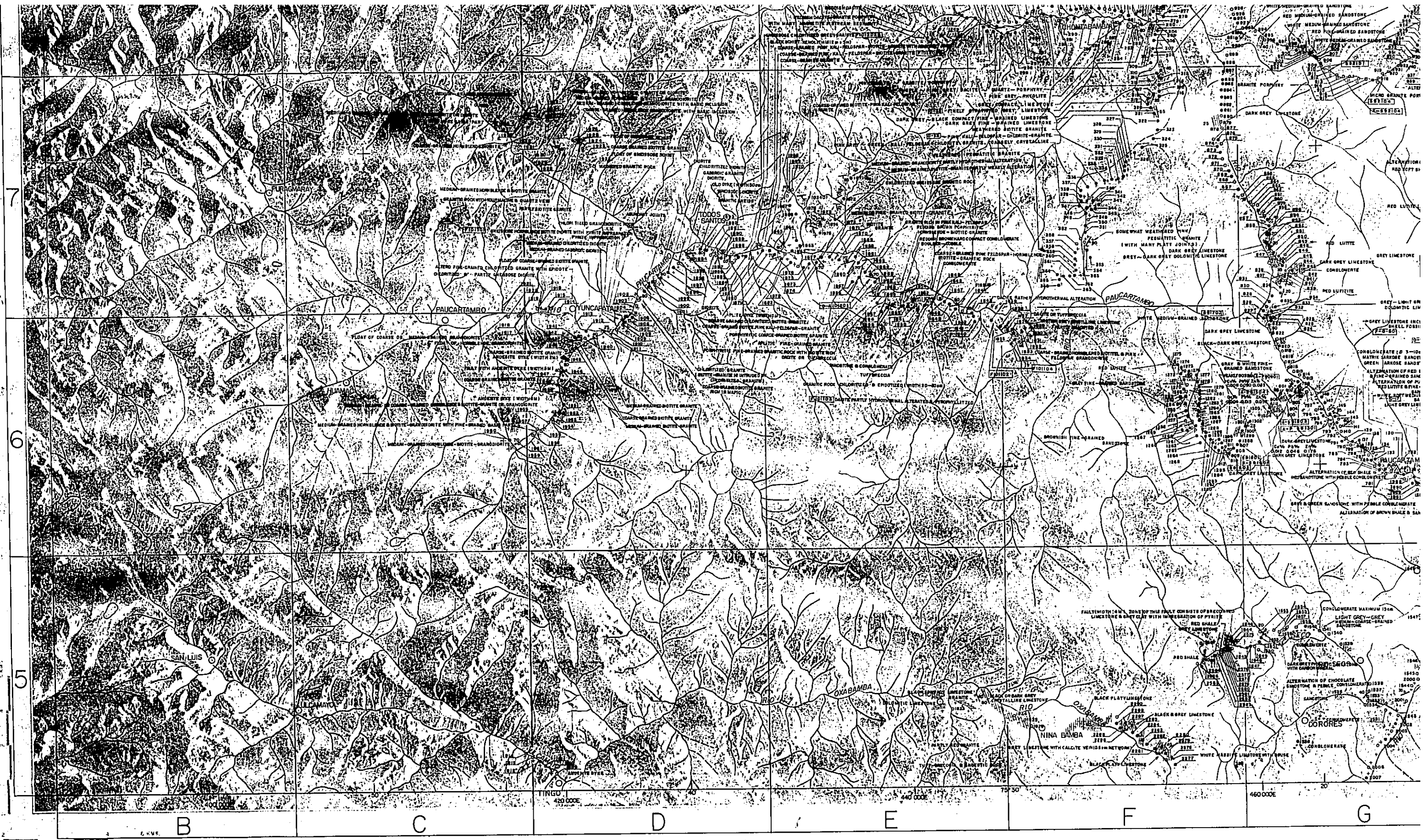
Scale 1:100,000



LEGEND

- SEDIMENTARY ROCK: gravel & sand, lutite & shale, sandstone, conglomerate, alternation of sandstone & conglomerate, alternation of shale & sandstone, limestone, dolomite, phyllite, schist, gneiss, serpentinite. IGNEOUS ROCK: volcanic breccia, rhyolite & dacite, aplite, porphyrite & andesite, quartz-porphry & granite porphyry, micro-granite, micro-diorite, granite & granodiorite, altered granitic rock. METAMORPHIC ROCK: schist, gneiss, serpentinite. ORE DEPOSIT: ore deposit. Symbols for dip & strike, fissure or joint, schistosity or gneissosity, dyke or vein, normal fault, thrust fault, anticlinal folding axis, synclinal folding axis, pyrite etc. dissemination, animal fossil locality, plant fossil locality, locality & number of soil sample (2001, 2002), sample for thin section (F92602), sample for X-ray analysis (X-F92603), sample of fossil (F-F92604), sample for chemical analysis (A-F92605).

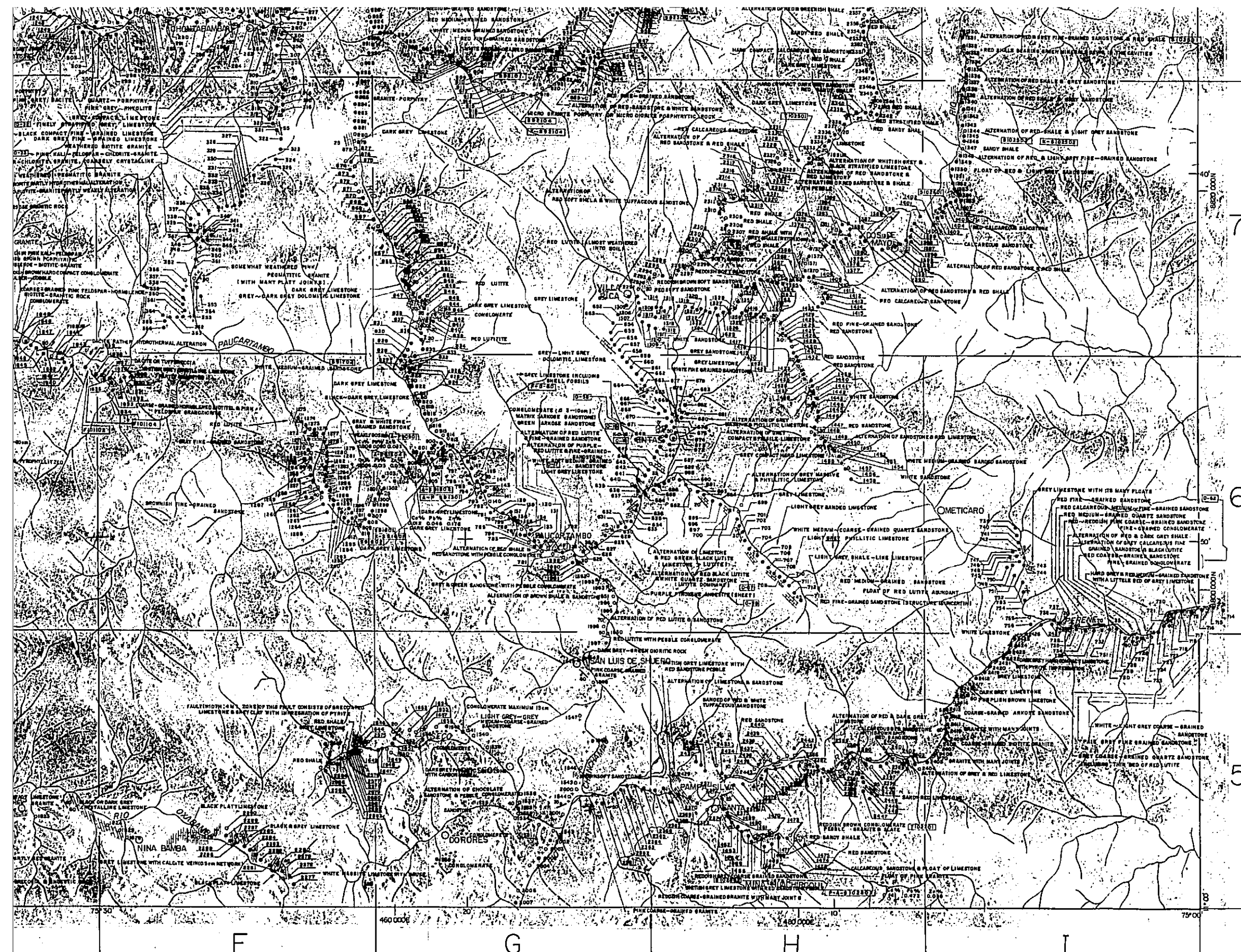




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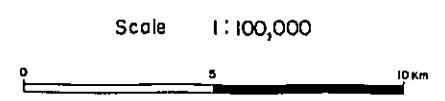
GOOD YEAR
 AEROSPACE
 AEROSPACE

AERO SERVICE
 AEROSPACE



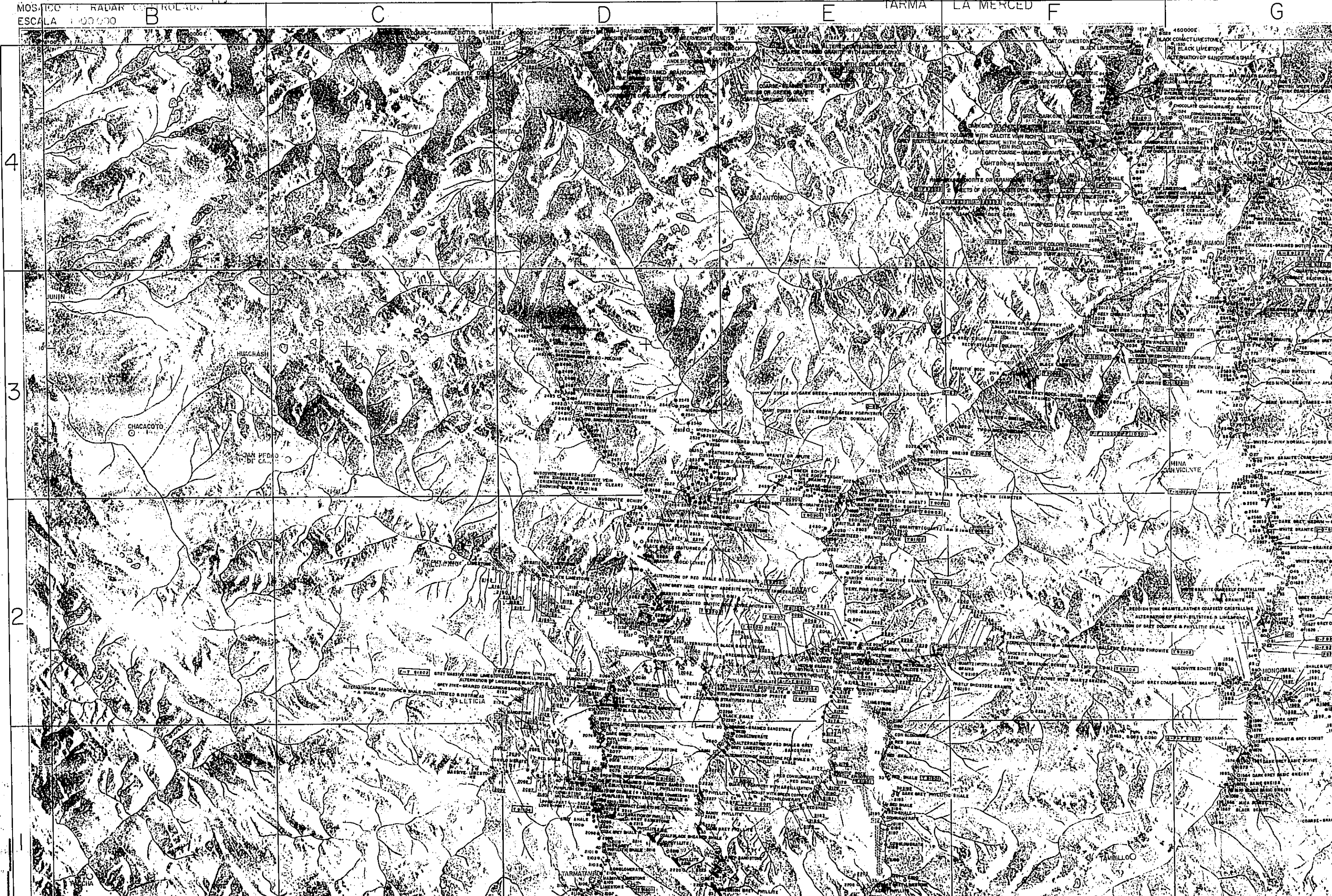
国際協力事業団
 入札
 登録No.

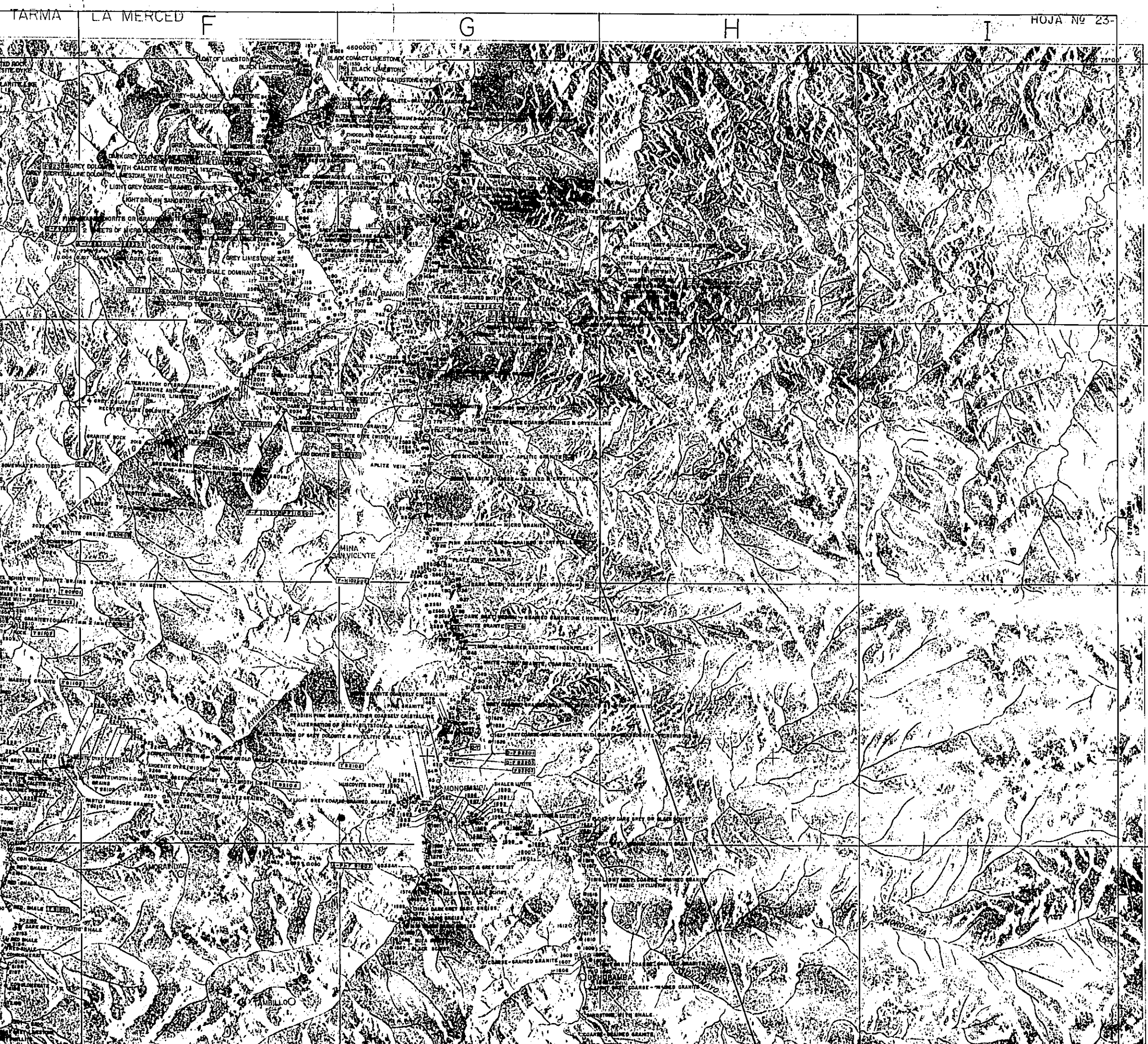
METAL MINING AGENCY OF JAPAN
 JAPAN INTERNATIONAL COOPERATION AGENCY
 GOVERNMENT OF JAPAN
 FEBRUARY 1976
 prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD



LEGEND

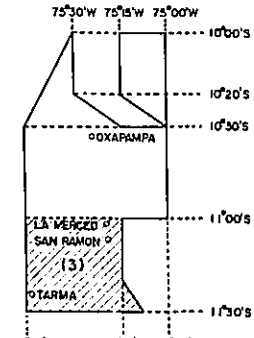
- | SEDIMENTARY ROCK | IGNEOUS ROCK |
|---|--|
| gravel & sand | volcanic breccia |
| lutite & shale | rhyolite & dacite |
| sandstone | aplite |
| conglomerate | porphyrite & andesite |
| alternation of sandstone & conglomerate | quartz-porphry & granite porphyry |
| alternation of shale & sandstone | micro-granite |
| limestone | micro-diorite |
| dolomite | granite & granodiorite |
| phyllite | altered granitic rock |
| METAMORPHIC ROCK | ORE DEPOSIT |
| schist | ore deposit |
| gneiss | |
| serpentinite | |
| dip & strike | pyrite etc. dissemination |
| fissure or joint | animal fossil locality |
| schistosity or gneissosity | plant fossil locality |
| dyke or vein | 2001 ● locality & number of soil sample |
| normal fault | 2002 ○ locality & number of stream sediment sample |
| thrust fault | sample for thin section |
| anticlinal folding axis | sample for X-ray analysis |
| synclinal folding axis | sample of fossil |
| boundary | sample for chemical analysis |
| | sample for polished section |
| | sample for dating |
| | sample for pollen analysis |





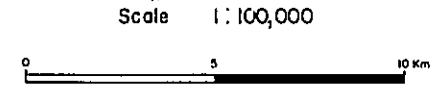
PL. AB-1 (3)

GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL CENTRAL PERU
(PHASE I)
ROUTE MAP OF THE SURVEYED AREA



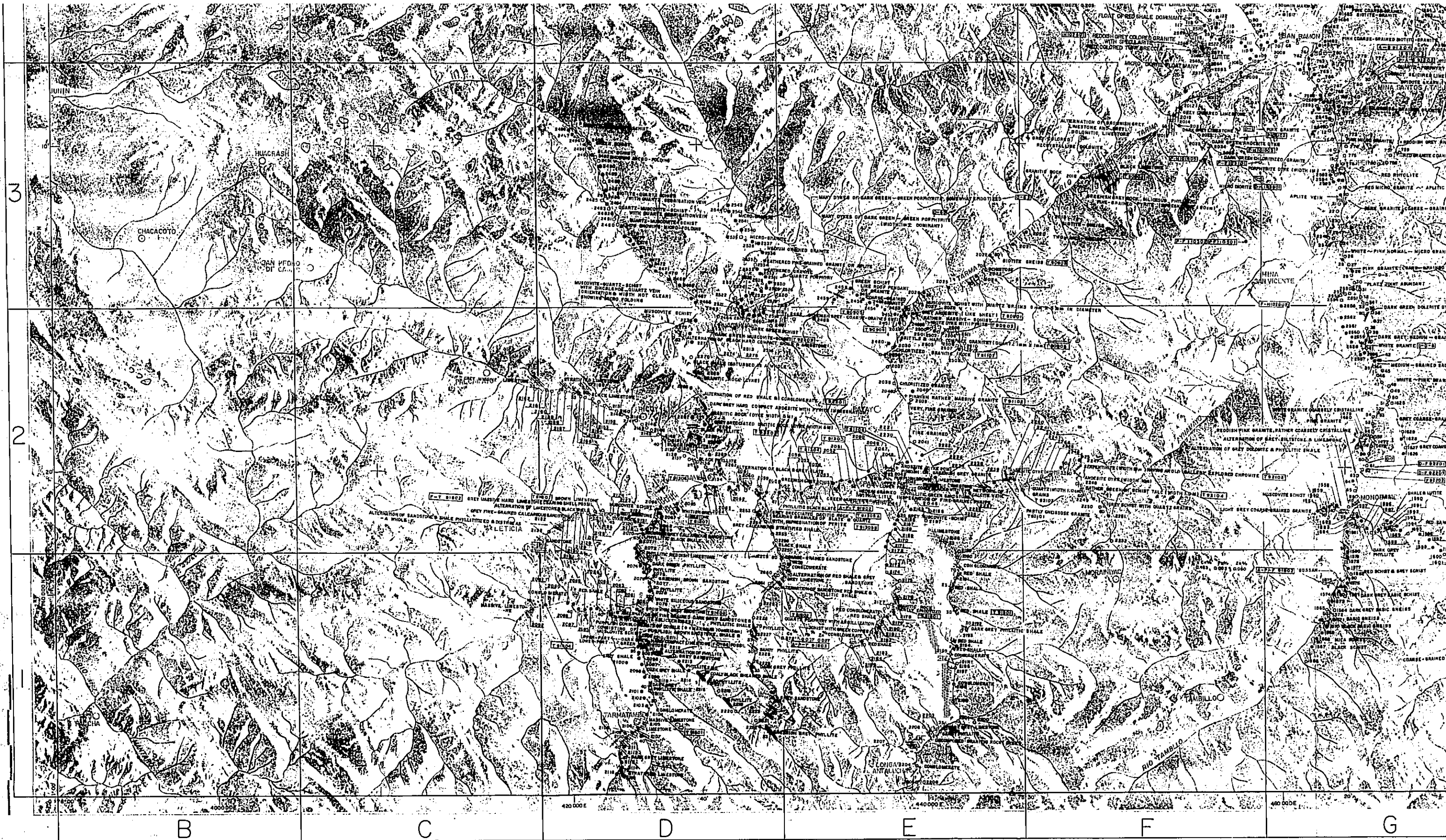
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本入 目
登録No.

METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
FEBRUARY 1975
prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

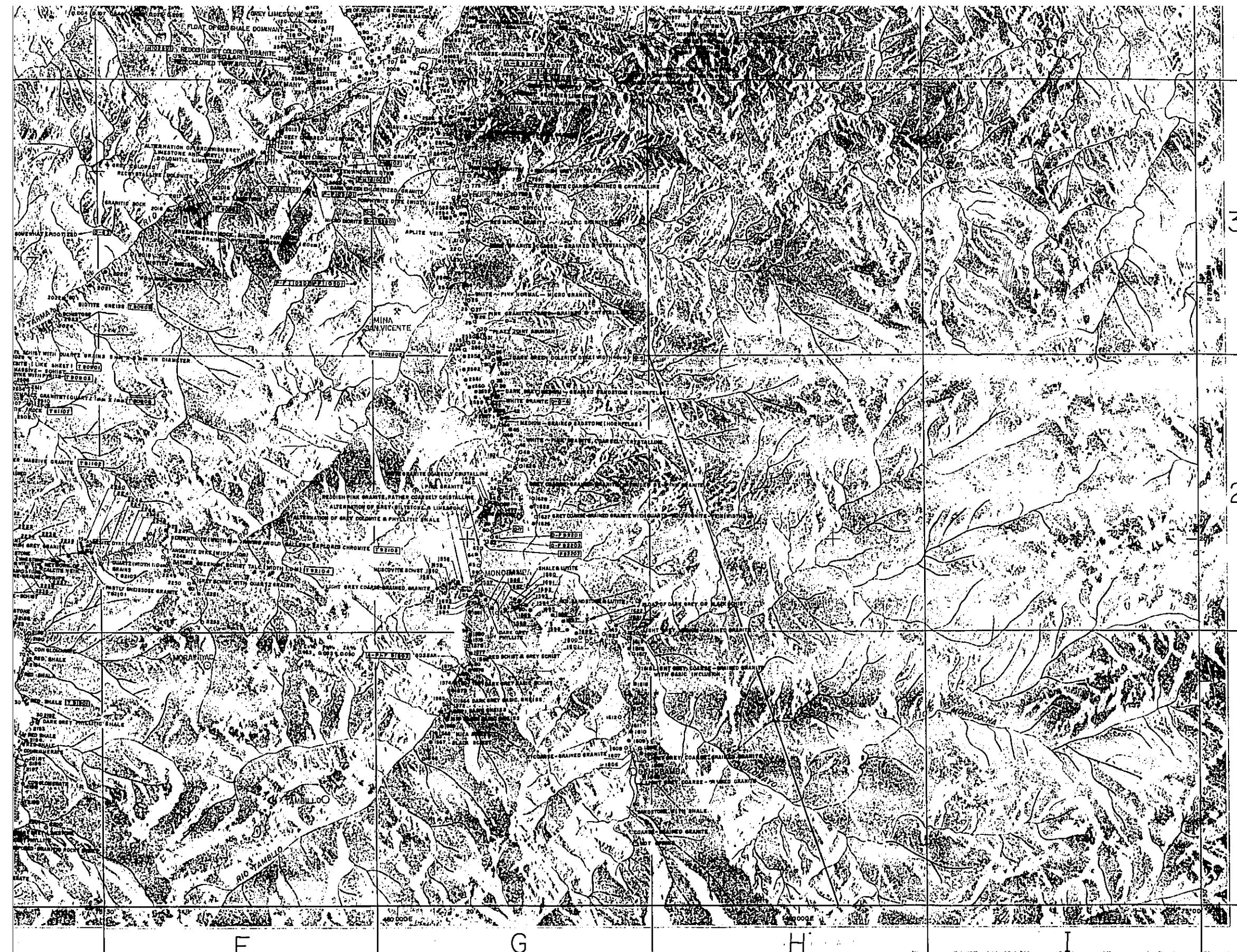


LEGEND

<p>SEDIMENTARY ROCK</p> <ul style="list-style-type: none"> gravel & sand lutite & shale sandstone conglomerate alternation of sandstone & conglomerate alternation of shale & sandstone limestone dolomite phyllite <p>METAMORPHIC ROCK</p> <ul style="list-style-type: none"> schist gneiss serpentinite 	<p>IGNEOUS ROCK</p> <ul style="list-style-type: none"> volcanic breccia rhyolite & dacite apite porphyrite & andesite quartz-porphry & granite porphyry micro-granite micro-diorite granite & granodiorite altered granitic rock <p>ORE DEPOSIT</p> <ul style="list-style-type: none"> ore deposit
<ul style="list-style-type: none"> dip & strike fissure or joint schistosity or gneissosity dyke or vein normal fault thrust fault anticlinal folding axis synclinal folding axis 	<ul style="list-style-type: none"> pyrite etc. dissemination animal fossil locality plant fossil locality locality & number of soil sample locality & number of stream sediment sample sample for thin section sample for X-ray analysis sample of fossil



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12 21 1107 50



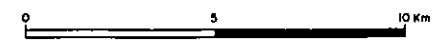
国際協力事業団
入館
登録No.

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

FEBRUARY 1975

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Scale 1:100,000



LEGEND

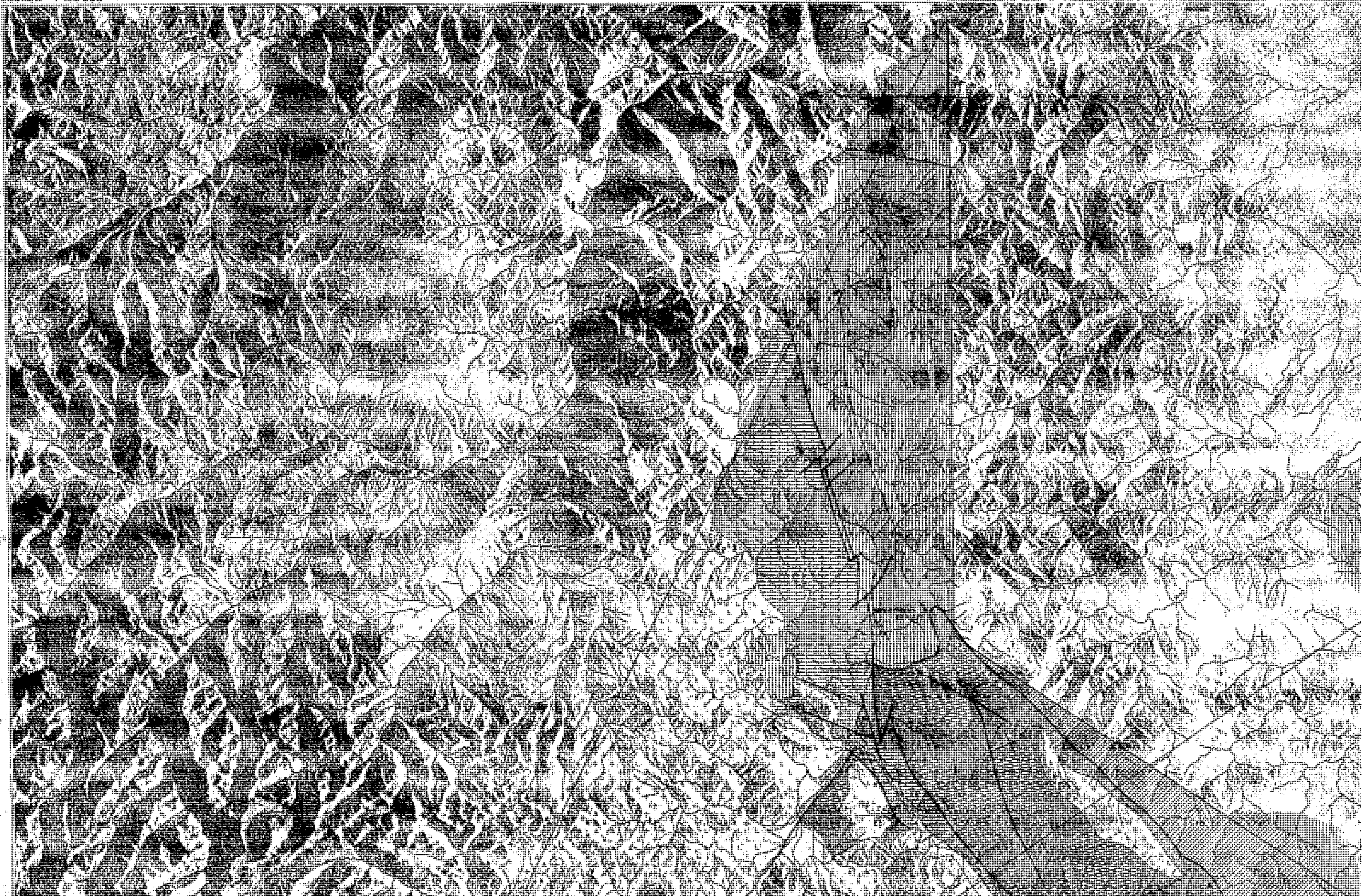
- | | | | |
|-------------------------|---|---------------------|---|
| SEDIMENTARY ROCK | | IGNEOUS ROCK | |
| | gravel & sand | | volcanic breccia |
| | lutite & shale | | rhyolite & dacite |
| | sandstone | | aplite |
| | conglomerate | | porphyrite & andesite |
| | alternation of sandstone & conglomerate | | quartz-porphry & granite porphyry |
| | alternation of shale & sandstone | | micro-granite |
| | limestone | | micro-diorite |
| | dolomite | | granite & granodiorite |
| | phyllite | | altered granitic rock |
| METAMORPHIC ROCK | | ORE DEPOSIT | |
| | schist | | ore deposit |
| | gneiss | | |
| | serpentinite | | |
| | dip & strike | | pyrite etc. dissemination |
| | fissure or joint | | animal fossil locality |
| | schistosity or gneissosity | | plant fossil locality |
| | dyke or vein | 2001 ● | locality & number of soil sample |
| | normal fault | 2002 ○ | locality & number of stream sediment sample |
| | thrust fault | F-92602 | sample for thin section |
| | anticlinal folding axis | X-F-92603 | sample for X-ray analysis |
| | synclinal folding axis | F-F-92604 | sample of fossil |
| | boundary | A-F-92605 | sample for chemical analysis |
| | | P-F-92606 | sample for polished section |
| | | D-F-92607 | sample for dating |
| | | K-F-92608 | sample for pollen analysis |

SERVICIO GEOLOGICO NACIONAL

Geological Service of Chile

SANTO DOMINGO DE LOS ANDES

1975



PL. AB-2 (1)

GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL PERU
(PHASE II)

GEOLOGICAL MAP OF THE SURVEYED AREA

75°30'W 75°15'W 75°00'W

10°00'S

10°20'S

10°30'S

OXAPEMPA

LA MERCEDES

SAN RAMON

TARMA

75°45'W 75°15'W 75°00'W

国際協力事業団

輸入

登録No.

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

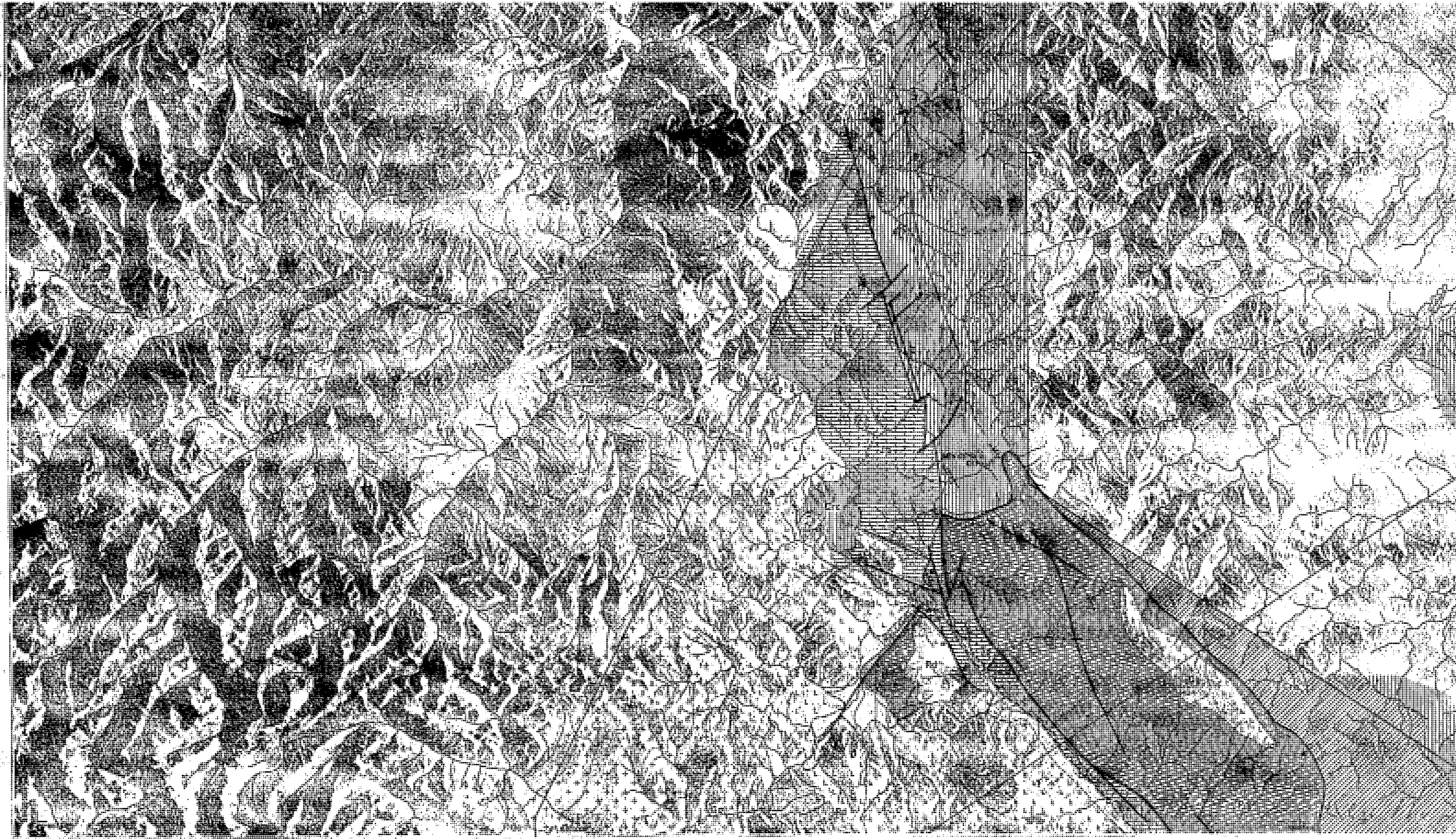
MARCH 1976

prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000

LEGEND

<u>SEDIMENTARY</u>		<u>IGNEOUS</u>	
[Symbol]	Gravel & sand	[Symbol]	Quaternary
[Symbol]	Contamana G. (UPPER)	[Symbol]	Tertiary
[Symbol]	(LOWER)	[Symbol]	Cretaceous
[Symbol]	Lourdes F.	[Symbol]	Jurassic
[Symbol]	Chonta G.	[Symbol]	Triassic
[Symbol]	Oriente G.	[Symbol]	Permian
[Symbol]	Sarayaquillo F.	[Symbol]	Carboniferous
[Symbol]	Pucara G.	[Symbol]	Devonian
[Symbol]	Mitu G.	[Symbol]	Pre-Cambrian
[Symbol]	Copacabana & Tarma G.	[Symbol]	
[Symbol]	Ambo G.	[Symbol]	
[Symbol]	Excelsior G.	[Symbol]	
[Symbol]	Schist/Gneiss	[Symbol]	
		[Symbol]	Volcanic breccia
		[Symbol]	Andesite, Rhyolite & Dacite
		[Symbol]	Diorite-phaphyrite, Quartz-chaphyry & Granite-phaphyry
		[Symbol]	Aplite
		[Symbol]	Diorite & Granodiorite complex
		[Symbol]	Granite & Granodiorite
		[Symbol]	Granodiorite complex (altered)
		[Symbol]	suave dip & strike 0-30°
		[Symbol]	moderate dip & strike 31-60°
		[Symbol]	steep dip & strike 61-89°
		[Symbol]	vertical dip & strike
		[Symbol]	geological boundary estimated
		[Symbol]	geological boundary confirmed
		[Symbol]	normal fault
		[Symbol]	thrust fault
		[Symbol]	anticlinal folding axis
		[Symbol]	synclinal
		[Symbol]	basin structure
		[Symbol]	dome structure



ES PROPIEDAD DEL S.C.M.
SE PROHIBEN LAS REPRODUCCIONES SIN AUTORIZACION

GOODYEAR
AEROSERVICIO

AERO SERVICE
LITON

OXAPAMPA 10°30'S
 LA MERCEDES 11°00'S
 SAN RAMON
 TARMA 11°30'S
 75°45'W 76°15'W 76°45'W

国際協力事業団	
入	
出	
登録No.	

METAL MINING AGENCY OF JAPAN
 JAPAN INTERNATIONAL COOPERATION AGENCY
 GOVERNMENT OF JAPAN
 MARCH 1976
 prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000



LEGEND

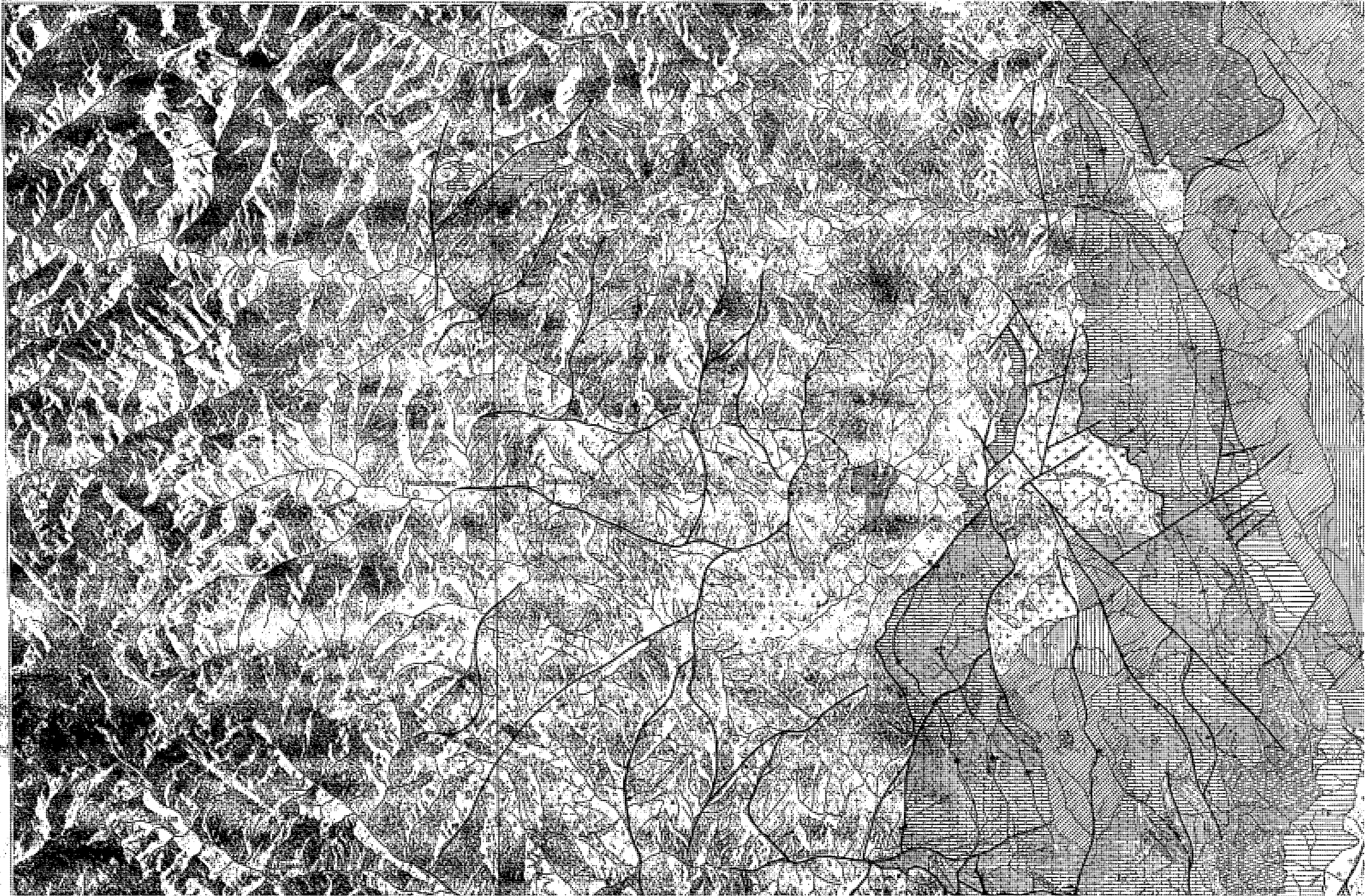
SEDIMENTARY		IGNEOUS	
-	Gravel & sand	Quaternary	Quaternary
Tcu	Contamana G. (UPPER)	Tertiary	Tertiary
Tpd	(LOWER)	Cretaceous	Cretaceous
Tp	Lourdes F.	Jurassic	Jurassic
Tq	Chonta G.	Triassic	Triassic
Tro	Oriente G.	Permian	Permian
Ts	Sarayaquillo F.	Carboniferous	Carboniferous
Tp	Pucara G.	Devonian	Devonian
Tm	Mitu G.		
Tpi	Copacabana & Tarma G.		
Tca	Ambo G.		
Tce	Excelcior G.		
METAMORPHIC			
Tcm	Schist/Gneiss	Pre-Cambrian	Pre-Cambrian

Quaternary	Volcanic breccia
Tertiary	Andesite, Rhyolite & Dacit
Cretaceous	Diorite-phosphite, Quartz-phosphite & Granite-phosphite
Jurassic	Aplite
Triassic	Diorite & Granodiorite complex
Permian	Granite & Granodiorite
Carboniferous	Granodiorite complex (altered)
Devonian	suave dip & strike 0-30°
	moderate dip & strike 31°-60°
	steep dip & strike 61°-89°
	vertical dip & strike
	geological boundary estimated
	geological boundary confirmed
	normal fault
	thrust fault
	anticlinal folding axis
	synclinal
	basin structure
	dome structure

REPUBLICA DEL PERU
 MINISTERIO DE ENERGIA Y MINAS
 SERVICIO NACIONAL DE GELOGIA Y MINERIA
 INSTITUTO NACIONAL DE GEOLÓGICOS LATERAL
 DE INVESTIGACIONES Y SERVICIOS

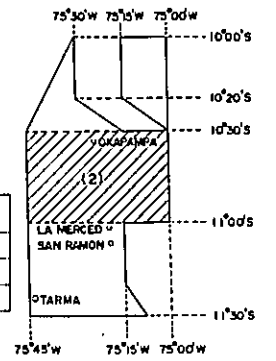
TITULO: ...
 ESCALA: ...
 FECHA: ...

PAZUNO - PANTANILLO - HUANUCO Y PASCO - PERU



GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL CENTRAL PERU
(PHASE II)
GEOLOGICAL MAP OF THE SURVEYED AREA

国際協力事業団
以
録No.



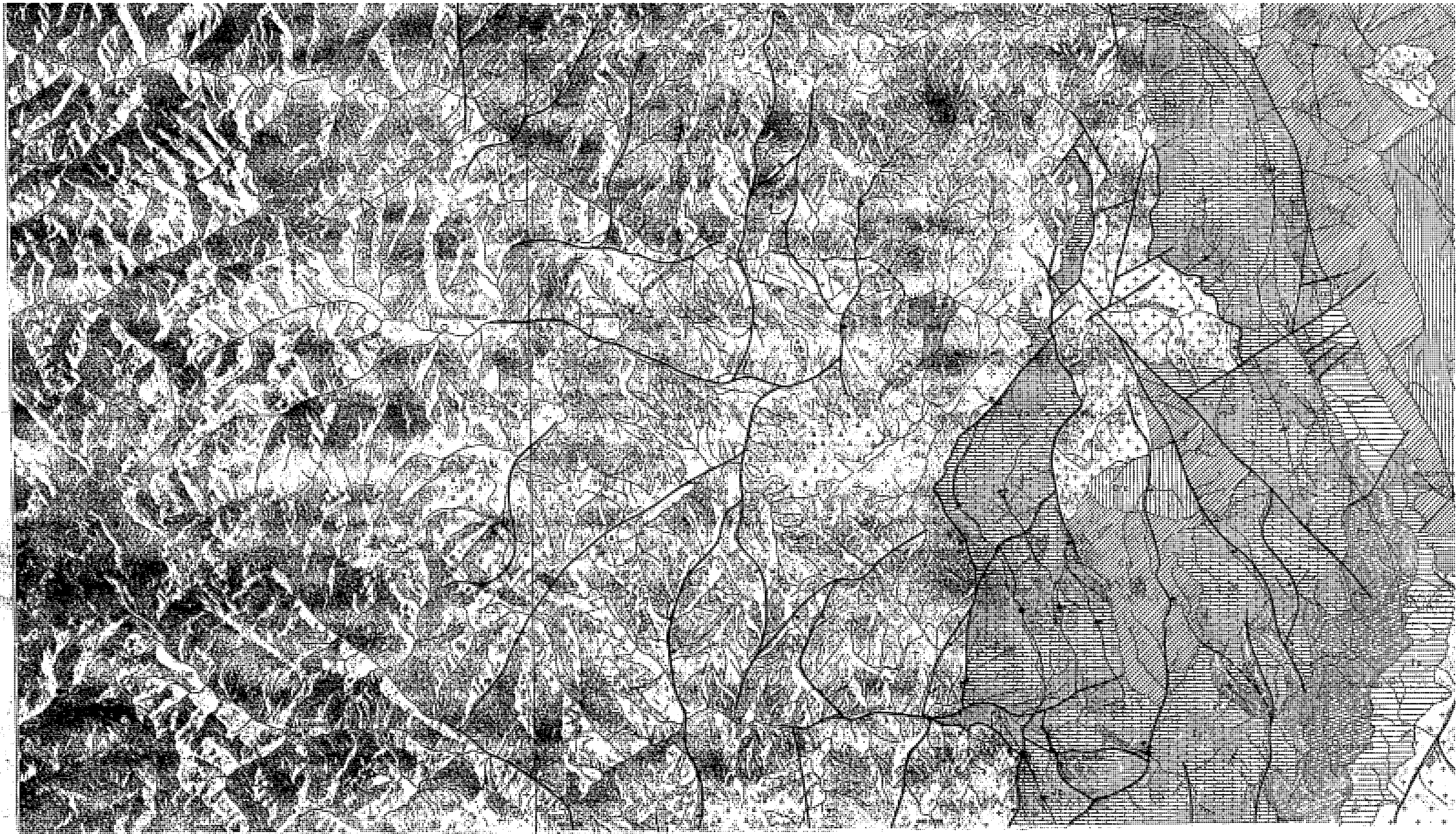
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN
MARCH 1976
prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000



LEGEND

SEDIMENTARY		IGNEOUS	
[Symbol]	Gravel & sand	[Symbol]	Quaternary
[Symbol]	Contamana G. (UPPER)	[Symbol]	Tertiary
[Symbol]	(LOWER)	[Symbol]	Cretaceous
[Symbol]	Laurbes F.	[Symbol]	Jurassic
[Symbol]	Chonta G.	[Symbol]	Triassic
[Symbol]	Oriente G.	[Symbol]	Permian
[Symbol]	Sarayaquillo F.	[Symbol]	Carboniferous
[Symbol]	Pucara G.	[Symbol]	Devonian
[Symbol]	Mitu G.	[Symbol]	Pre-Cambrian
[Symbol]	Copacabana & Tarma G.	[Symbol]	
[Symbol]	Ambo G.	[Symbol]	
[Symbol]	Excelcior G.	[Symbol]	
[Symbol]		[Symbol]	Volcanic breccia
[Symbol]		[Symbol]	Andesite, Rhyolite & Dacite
[Symbol]		[Symbol]	Dorite-porphyrte, Quartz-porphyrte & Granite-porphyrte
[Symbol]		[Symbol]	Aplite
[Symbol]		[Symbol]	Oiorite & Granodiorite complex
[Symbol]		[Symbol]	Granite & Granodiorite
[Symbol]		[Symbol]	Granodiorite complex (altered)
[Symbol]		[Symbol]	suave dip & strike 0~30°
[Symbol]		[Symbol]	moderate dip & strike 31°~60°
[Symbol]		[Symbol]	steep dip & strike 61°~89°
[Symbol]		[Symbol]	vertical dip & strike
[Symbol]		[Symbol]	geological boundary estimated
[Symbol]		[Symbol]	geological boundary confirmed
[Symbol]		[Symbol]	normal fault
[Symbol]		[Symbol]	thrust fault
[Symbol]		[Symbol]	anticlinal folding axis
[Symbol]		[Symbol]	synclinal
[Symbol]		[Symbol]	basin structure
[Symbol]		[Symbol]	dome structure



ES PROPIEDAD DEL GOBIERNO

GOODYEAR
AEROSPACE
AIRCRAFT DIVISION

AERO SERVICE
Lubbock, Texas

国際協力事業団
 名称
 登録No.

LA MERCEDES
 SAN RAMON
 PYARMA

10°30'S
 11°00'S
 11°30'S

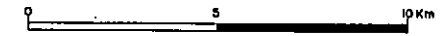
75°45'W 75°00'W 75°00'W

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

MARCH 1976

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LEGEND

SEDIMENTARY		IGNEOUS	
[Symbol]	Gravel & sand	Quaternary	[Symbol] Volcanic breccia
[Symbol]	Contamana G. (UPPER)	Tertiary	[Symbol] Andesite, Rhyolite & Dacite
[Symbol]	(LOWER)		[Symbol] Diorite-porphyrte, Quartz-porphyr & Granite-porphyrte
[Symbol]	Lourbas F.		[Symbol] Aplite
[Symbol]	Chanta G.	Cretaceous	[Symbol] Diorite & Granodiorite complex
[Symbol]	Oriente G.		[Symbol] Granite & Granodiorite
[Symbol]	Sarayaquillo F.	Jurassic	[Symbol] Granodiorite complex (altered)
[Symbol]	Pucara G.	Triassic	[Symbol] steep dip & strike 0~30°
[Symbol]	Mitu G.	Permian	[Symbol] moderate dip & strike 31°~60°
[Symbol]	Copacabana & Tarma G.	Carboniferous	[Symbol] steep dip & strike 61°~69°
[Symbol]	Ambo G.		[Symbol] vertical dip & strike
[Symbol]	Excelcior G.	Devonian	[Symbol] geological boundary estimated
[Symbol]			[Symbol] geological boundary confirmed
METAMORPHIC			[Symbol] normal fault
[Symbol]	Schist / Gneiss	Pre-Cambrian	[Symbol] thrust fault
			[Symbol] anticlinal folding axis
			[Symbol] synclinal
			[Symbol] basin structure
			[Symbol] dome structure

MINISTERIO DE MINAS Y PETRÓLEO
 REPÚBLICA DE COLOMBIA

Geological Map of the
 LA MERCEDES - SAN RAMON - PYARMA
 AREA

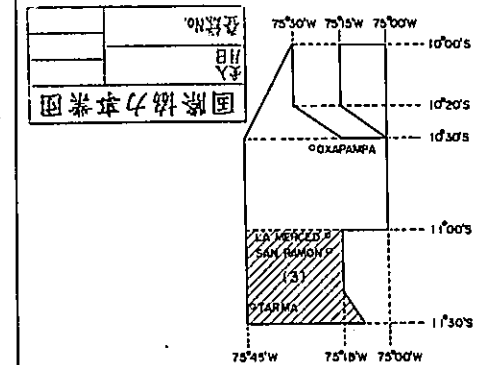
Scale 1:100,000

MARCH 1976

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GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL PERU
(PHASE II)
GEOLOGICAL MAP OF THE SURVEYED AREA



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JAPAN INTERNATIONAL COOPERATION AGENCY
GOVERNMENT OF JAPAN

MARCH 1976

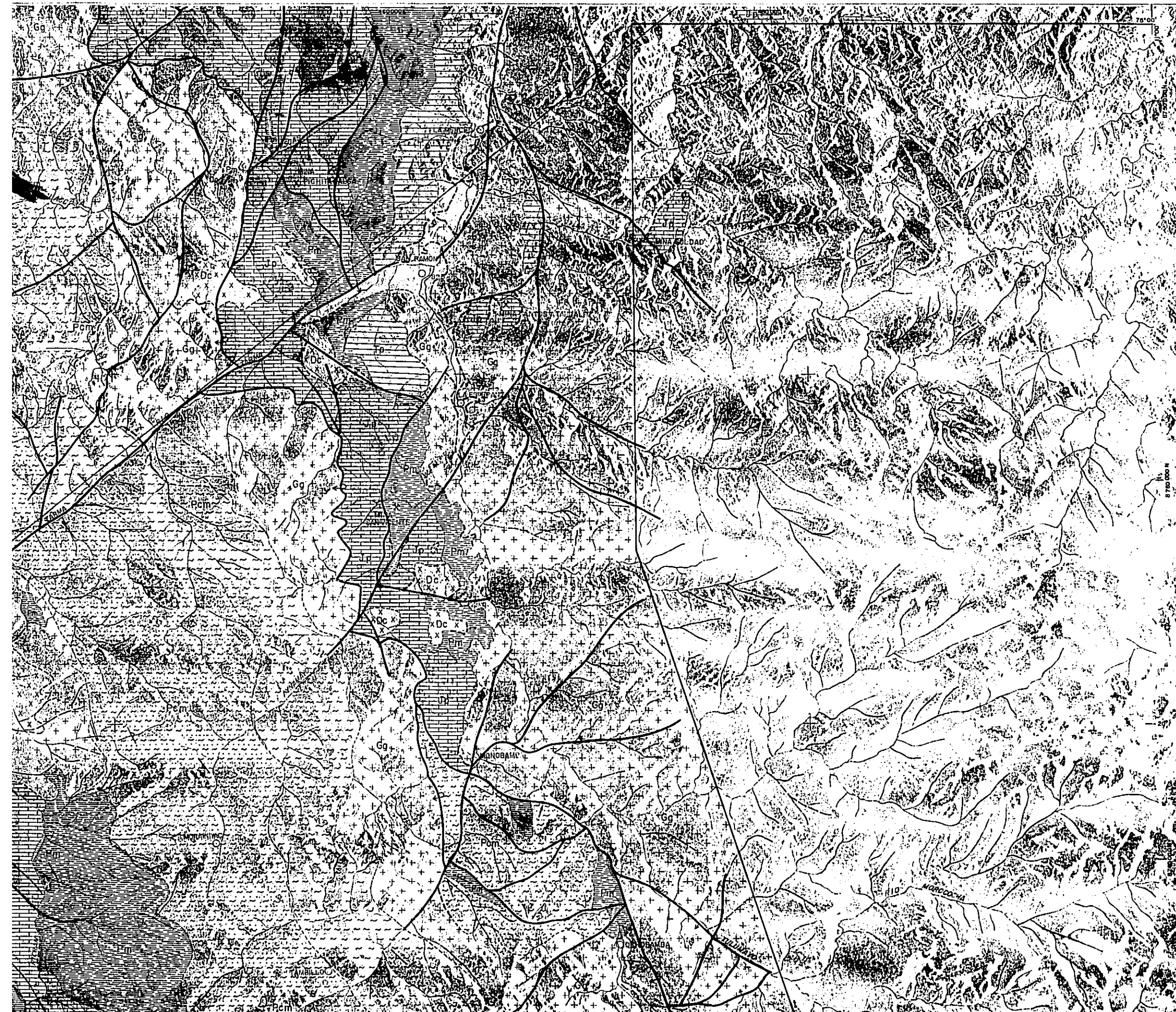
prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000



LEGEND

SEDIMENTARY		IGNEOUS	
[Symbol]	Gravel & sand	[Symbol]	Quaternary
[Symbol]	Contamana G. (UPPER)	[Symbol]	Tertiary
[Symbol]	Contamana G. (LOWER)	[Symbol]	Cretaceous
[Symbol]	Lourbes F.	[Symbol]	Jurassic
[Symbol]	Chonta G.	[Symbol]	Triassic
[Symbol]	Oriente G.	[Symbol]	Permian
[Symbol]	Sarayaquillo F.	[Symbol]	Carboniferous
[Symbol]	Pucara G.	[Symbol]	Devonian
[Symbol]	Mitu G.	[Symbol]	Pre-Cambrian
[Symbol]	Copacabana & Tarma G.	[Symbol]	
[Symbol]	Ambo G.	[Symbol]	
[Symbol]	Excelcior G.	[Symbol]	
[Symbol]	Schist/Gneiss	[Symbol]	
[Symbol]		[Symbol]	Volcanic breccia
[Symbol]		[Symbol]	Andesite, Rhyolite & Dacite
[Symbol]		[Symbol]	Diorite porphyry, Quartz-porphyry & Granite-porphyry
[Symbol]		[Symbol]	Aplite
[Symbol]		[Symbol]	Diorite & Granodiorite complex
[Symbol]		[Symbol]	Granite & Granodiorite
[Symbol]		[Symbol]	Granodiorite complex (altered)
[Symbol]		[Symbol]	shallow dip & strike 0-30°
[Symbol]		[Symbol]	moderate dip & strike 31-60°
[Symbol]		[Symbol]	steep dip & strike 61-82°
[Symbol]		[Symbol]	vertical dip & strike
[Symbol]		[Symbol]	geological boundary estimated
[Symbol]		[Symbol]	geological boundary confirmed
[Symbol]		[Symbol]	normal fault
[Symbol]		[Symbol]	thrust fault
[Symbol]		[Symbol]	anticlinal folding axis
[Symbol]		[Symbol]	synclinal
[Symbol]		[Symbol]	basin structure
[Symbol]		[Symbol]	dome structure

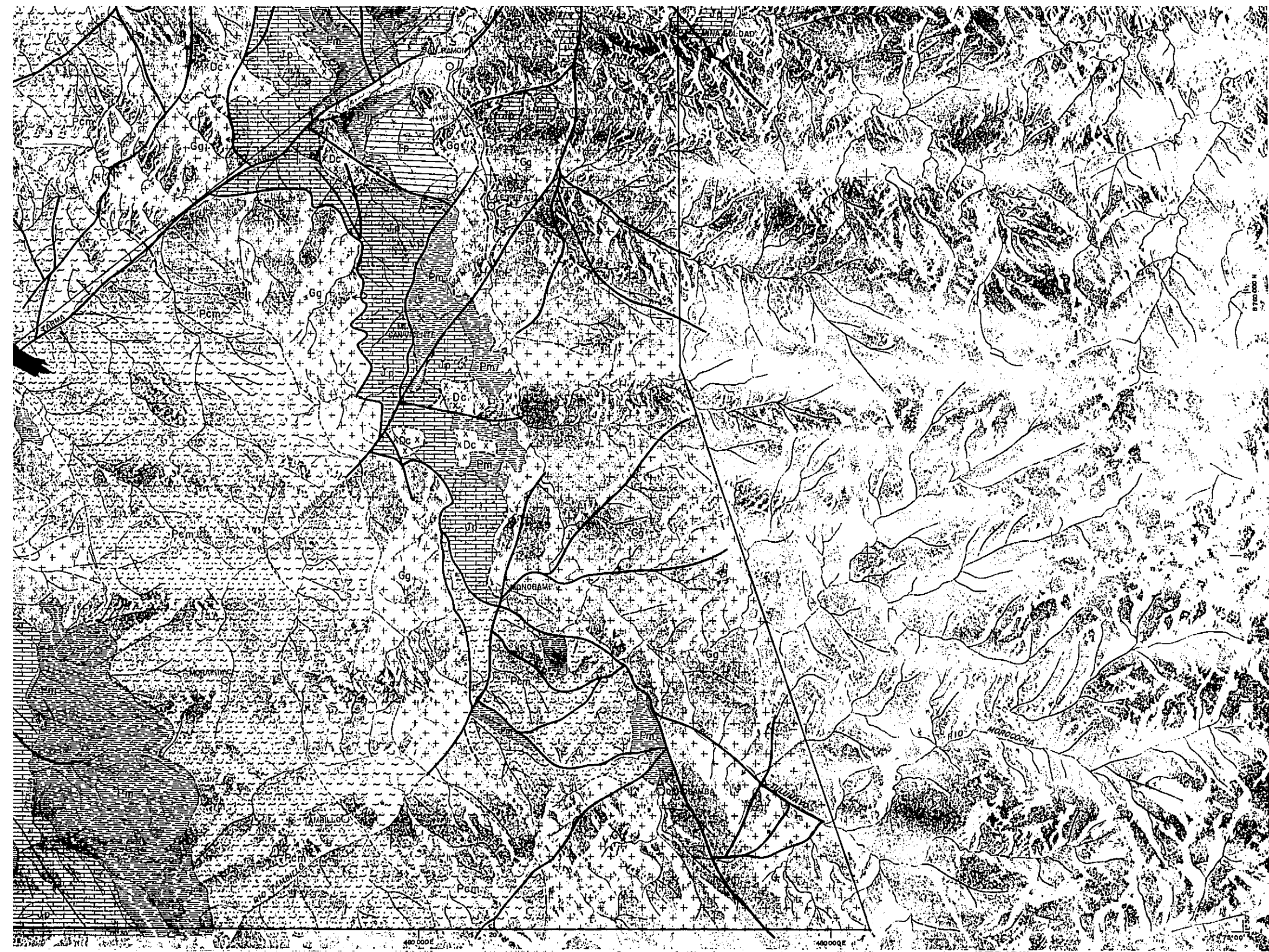




ES PROPIEDAD DEL CGM
SE PROHIBE SU REPRODUCCION TOTAL O PARCIAL

GOODYEAR

AERO SERVICE



OAXACA

10°30'S
10°00'S
9°30'S

75°45'W 75°15'W 75°00'W

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

M. H. CH 1976

prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

Scale 1:100,000



LEGEND

SEDIMENTARY		IGNEOUS	
[Symbol]	Gravel & sand	Quaternary	[Symbol] Volcanic breccia
[Symbol]	Contamana G. (UPPER)	Tertiary	[Symbol] Andesite, Rhyolite & Dacite
[Symbol]	(LOWER)		[Symbol] Diorite porphyry, Quartz-porphyry & Granite-porphyry
[Symbol]	Laurbes F.		[Symbol] Aplite
[Symbol]	Chonia G.	Cretaceous	[Symbol] Diorite & Granodiorite complex
[Symbol]	Oriente G.		[Symbol] Granite & Granodiorite
[Symbol]	Sarayaquilla F.	Jurassic	[Symbol] Granodiorite complex (altared)
[Symbol]	Pucara G.	Triassic	[Symbol] suave dip & strike 0°-30°
[Symbol]	Mitu G.	Permian	[Symbol] moderate dip & strike 31°-60°
[Symbol]	Capacabana & Tarma G.	Carboniferous	[Symbol] steep dip & strike 61°-82°
[Symbol]	Ambo G.		[Symbol] vertical dip & strike
[Symbol]	Excelcior G.	Devonian	[Symbol] geological boundary estimated
[Symbol]	Schist/Gneiss	Pre-Cambrian	[Symbol] geological boundary confirmed
			[Symbol] normal fault
			[Symbol] thrust fault
			[Symbol] anticlinal folding axis
			[Symbol] synclinal
			[Symbol] basin structure
			[Symbol] dome structure

SERVICIO DE GEOLOGIA

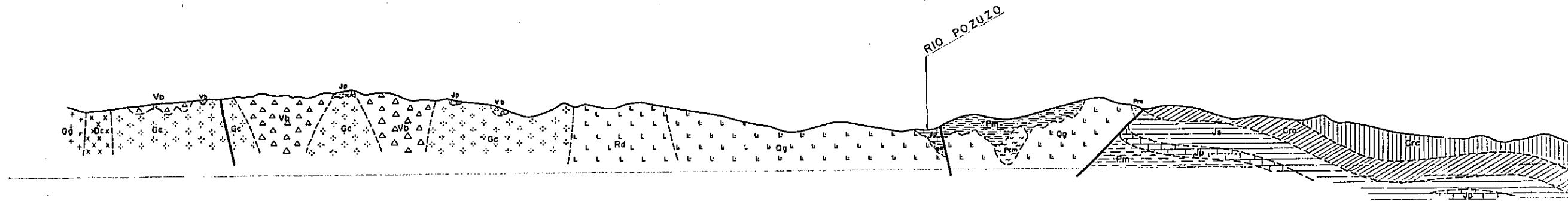
OAXACA

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1976

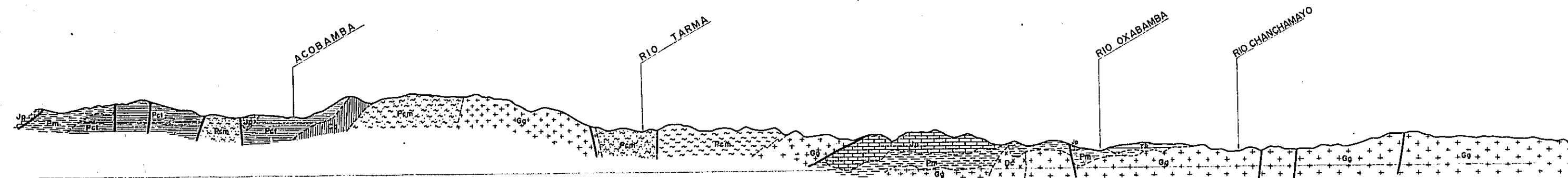
SECTION A - A'

SW



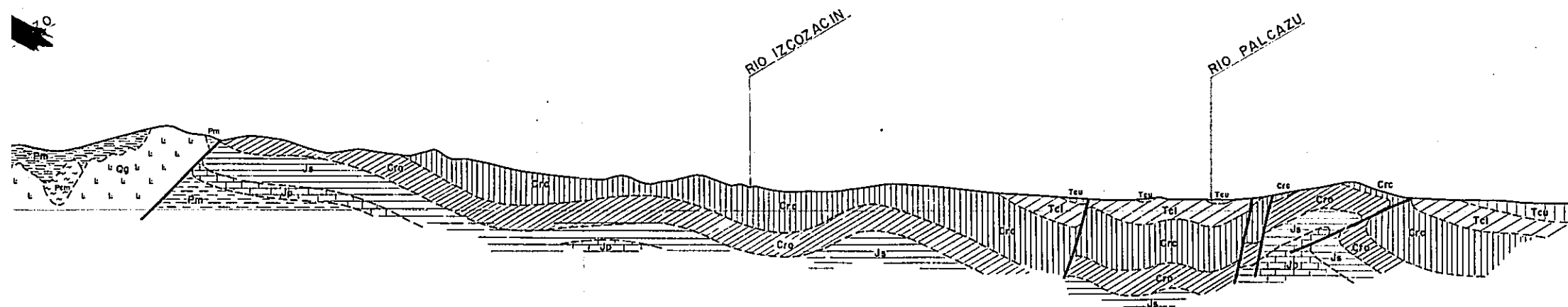
SECTION B - B'

SW



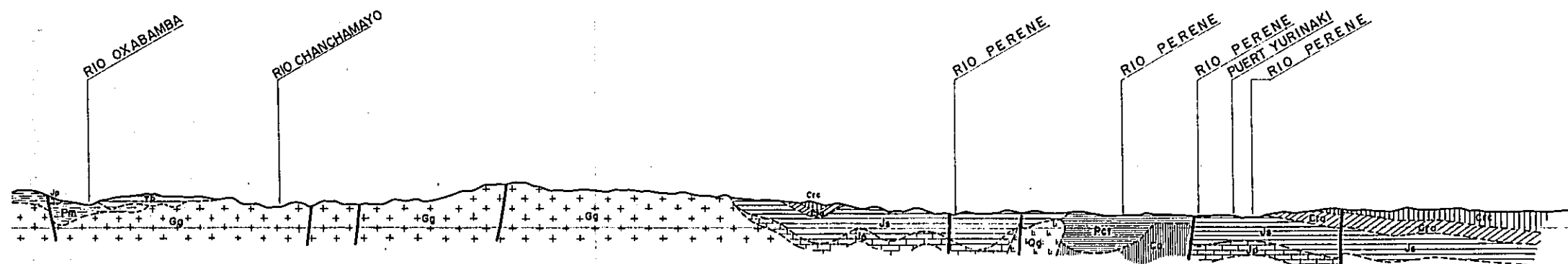
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NE



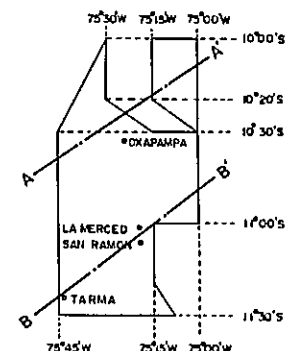
SECTION B - B'

NE



PL. AB-3

GEOLOGICAL SURVEY
OF
THE CORDILLERA ORIENTAL CENTRAL PERU
(PHASE II)
GEOLOGICAL PROFILE OF
THE SURVEYED AREA



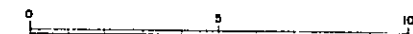
国際協力事業団
輸入
月日
登録No.

METAL MINING AGENCY OF JAPAN
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GOVERNMENT OF JAPAN

MARCH 1976

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LEGEND

SEDIMENTARY		IGNEOUS	
Tcb	Cantamayo G. (UPPER)	Vb	Volcanic breccia
Tcl	(LOWER)	Rd	Andesite, Rhyolite & Dacite
Tp	Lourdes F.	Dq	Diorite-porphry, Quartz-porphry & Granite-porphry
Ch	Chonta G.	Dc	Diorite & Granodiorite complex
Or	Oriente G.	Gg	Granite & Granodiorite
Sa	Sarayaquillo F.	Gc	Granodiorite complex (altered)
Pu	Pucara G.		geological boundary
Mi	Mitu G.		fault
Pct	Capacabana & Tarima G.		
Ca	Ambo G.		
METAMORPHIC			
Pcm	Schist / Gneiss		Pre-Cambrian

ESCALA 1:100 000

B

C

D

E

F

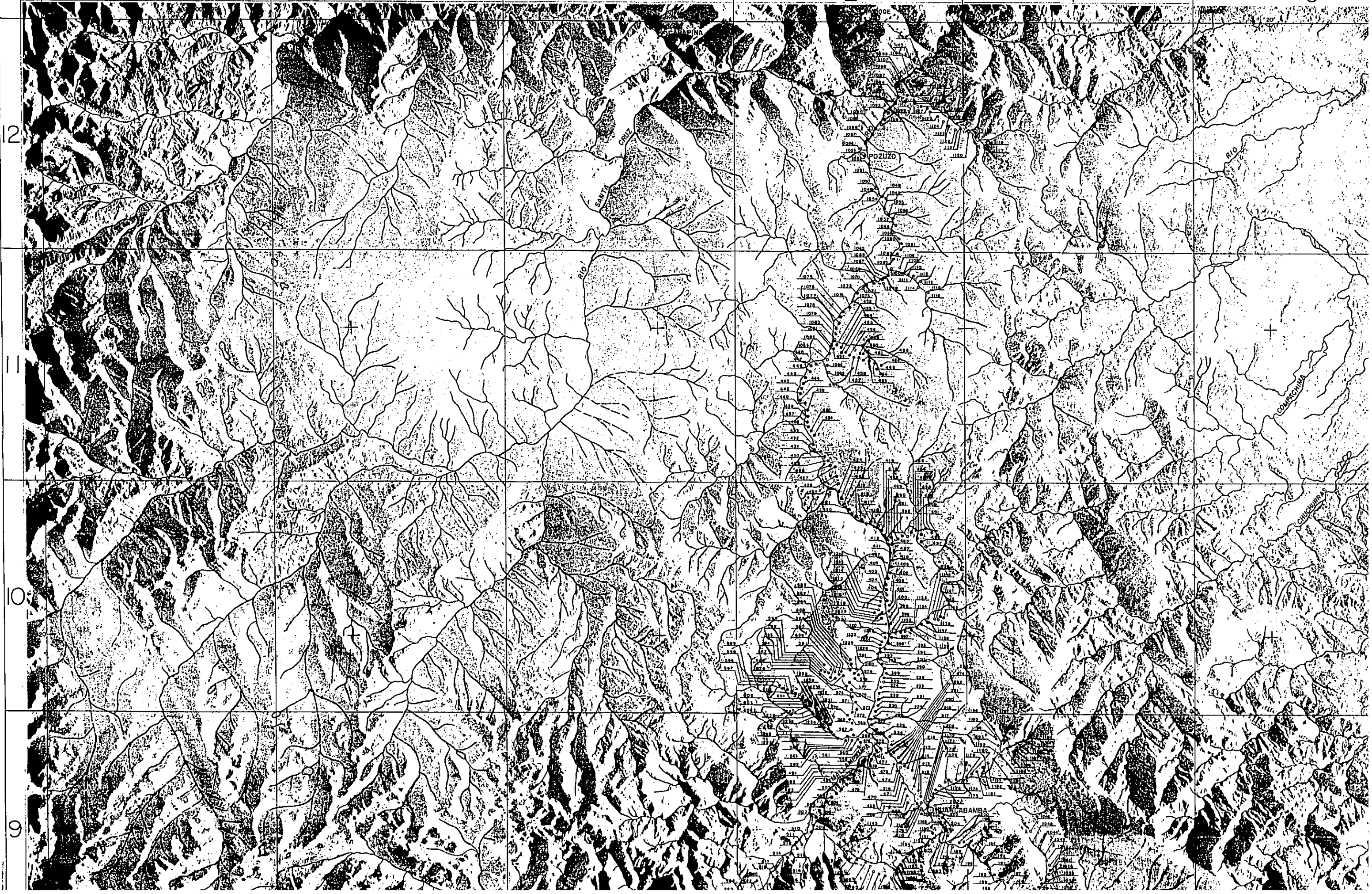
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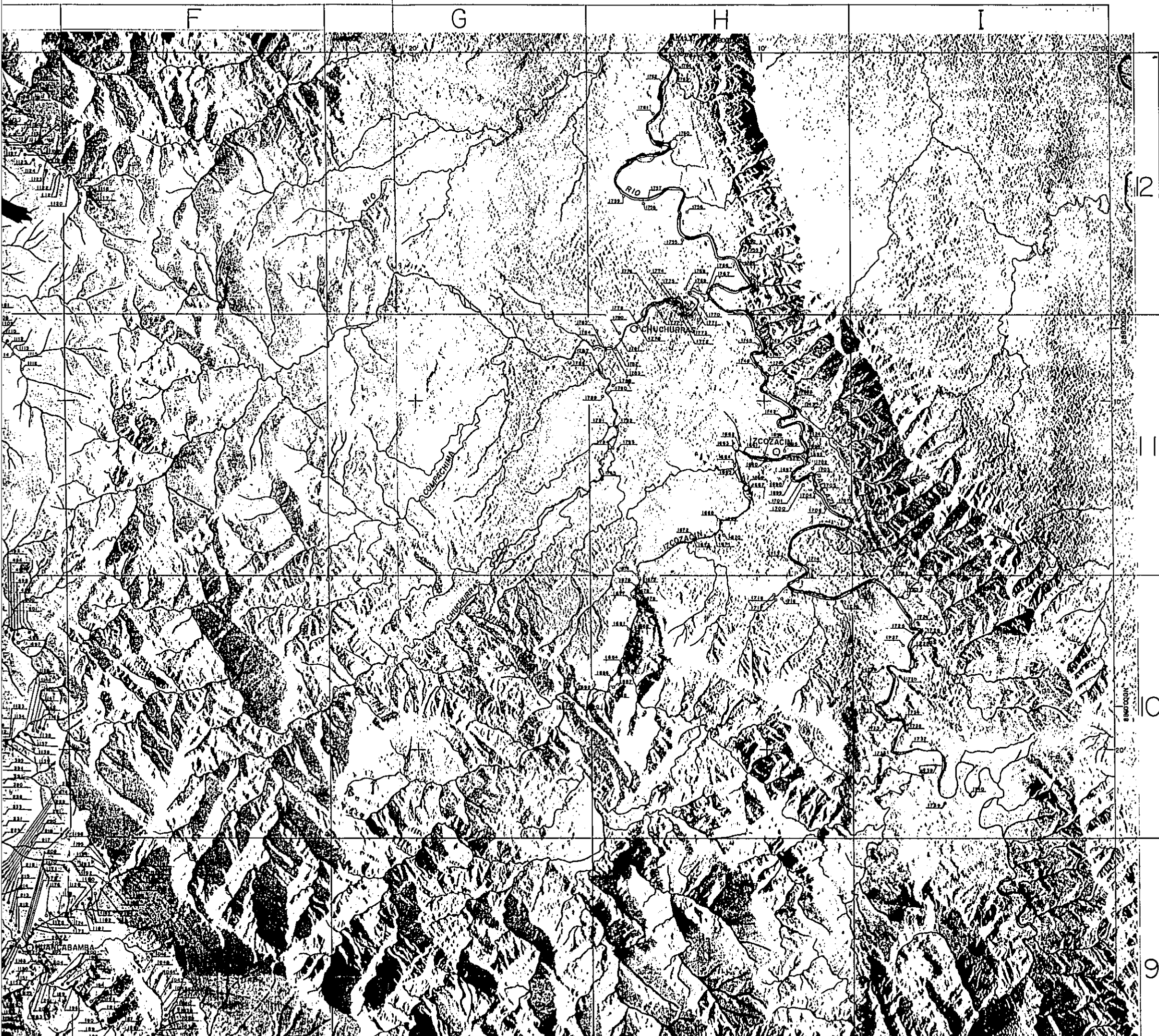
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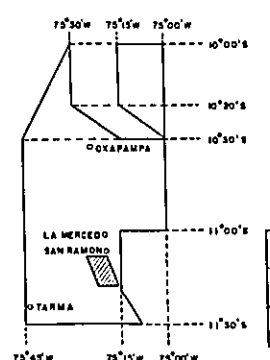
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PL.AB-4 (1)

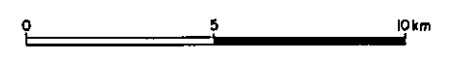
GEOLOGICAL SURVEY
OF
CENTRAL PERU REPUBLIC OF PERU
(PHASE II)
LOCALITY MAP OF GEOCHEMICAL SAMPLE



国際協力事業団
 参入
 月日
 登録No.

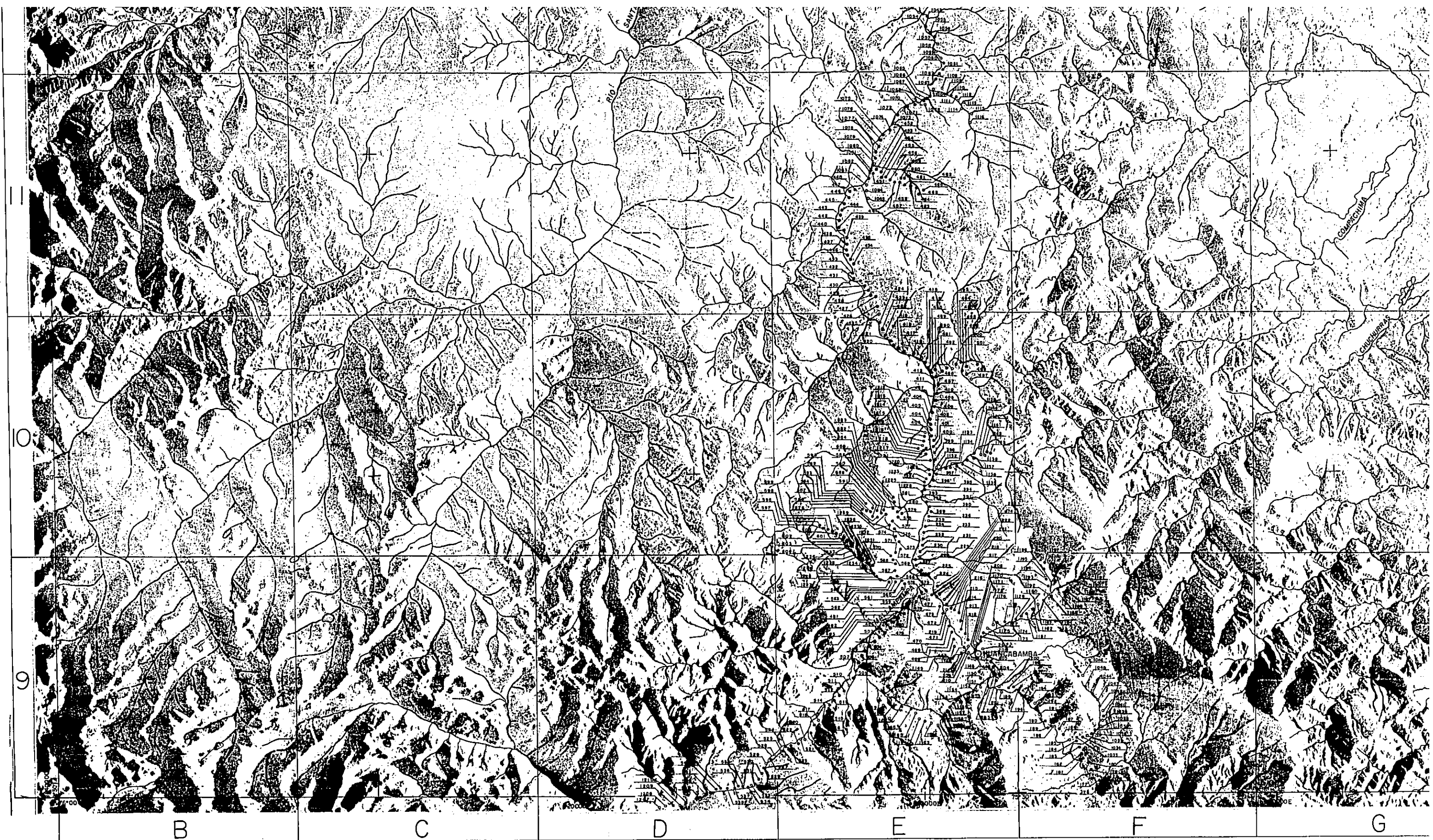
METAL MINING AGENCY OF JAPAN
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 GOVERNMENT OF JAPAN
 MARCH 1976
 prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

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LEGEND

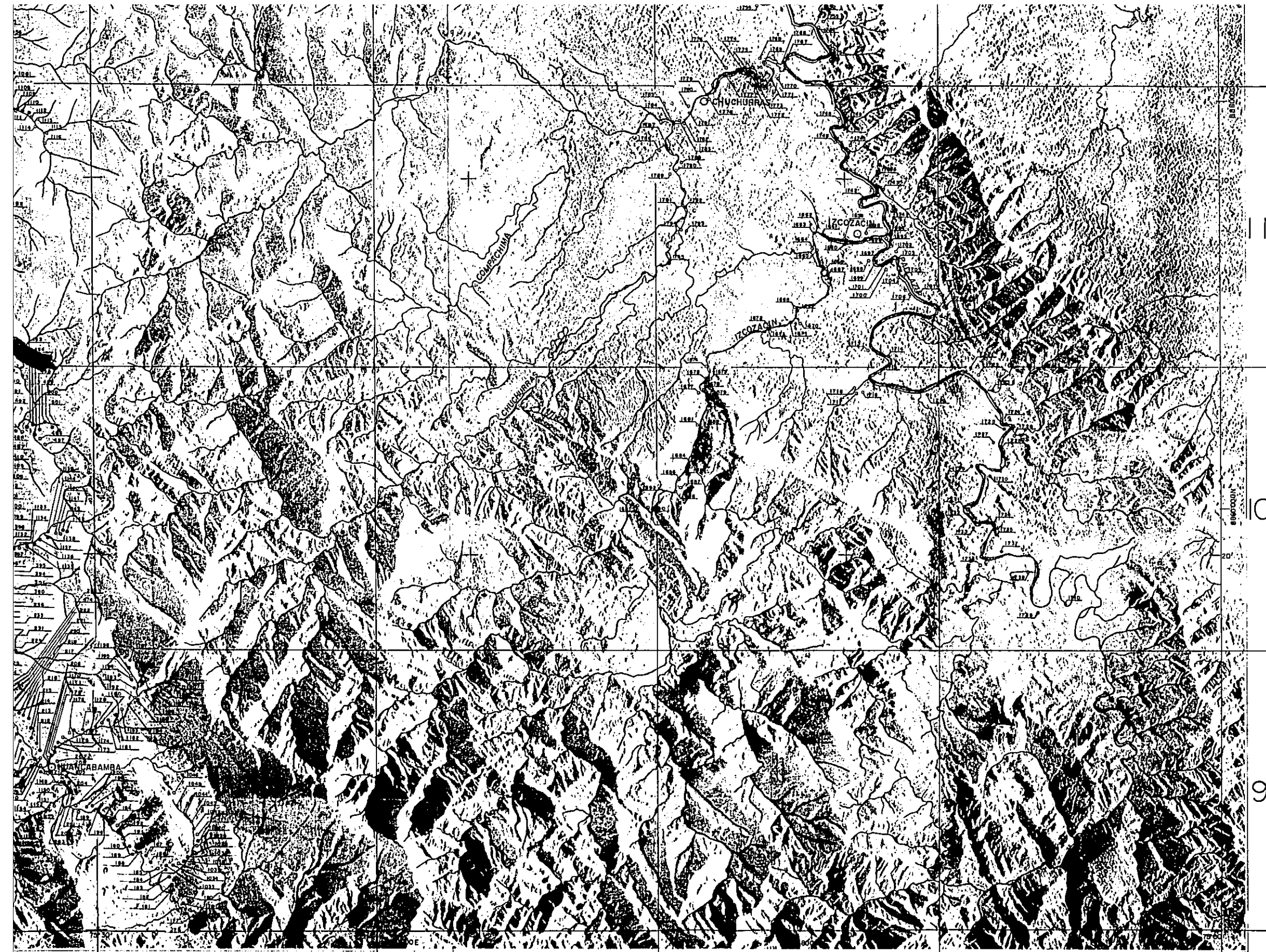
- 2395 Locality & number of soil sample.
- 2386 Locality & number of stream sediment sample.



ES 1:50,000

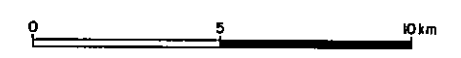
GOODYEAR
AEROSPACE

AERO SERVICE
LITTON, TEXAS 75602



		国際協力事業団 入 目 録 登録No.
METAL MINING AGENCY OF JAPAN JAPAN INTERNATIONAL COOPERATION AGENCY GOVERNMENT OF JAPAN MARCH 1976 prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD		

Scale 1 : 100,000



LEGEND

- 2395 Locality B number of soil sample.
- 2396 Locality B number of stream sediment sample.

F

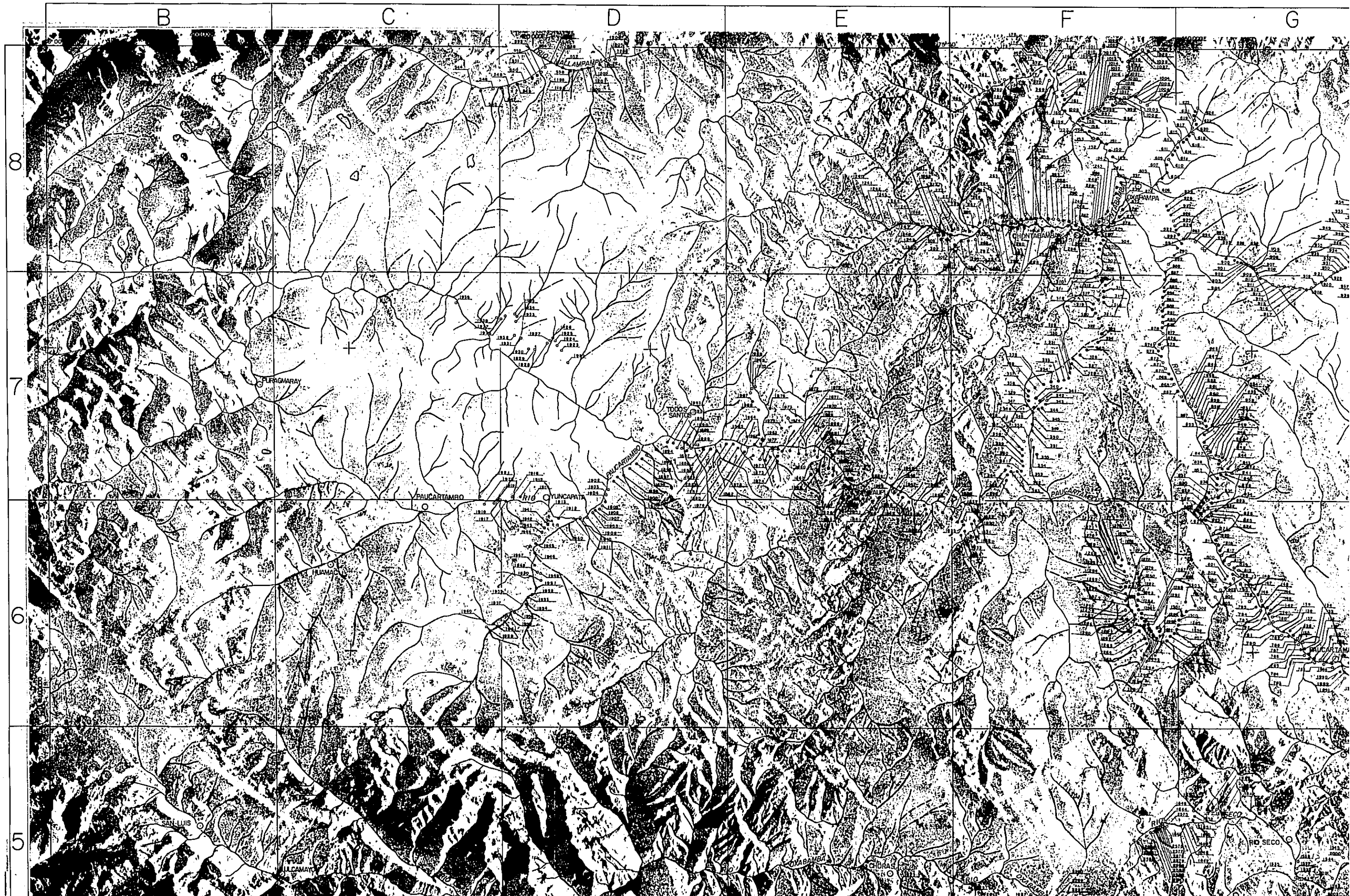
G

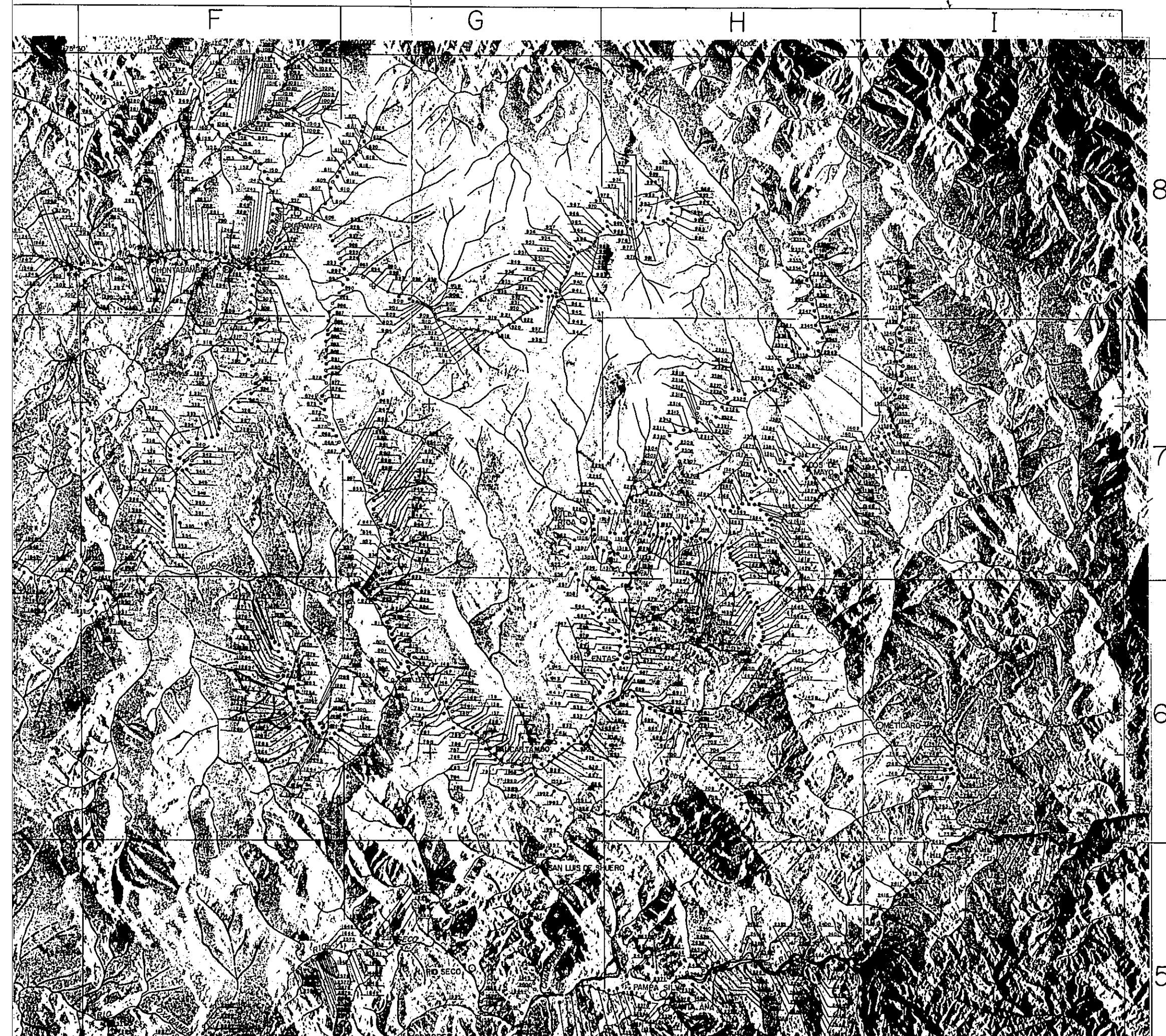
H

I

MINISTERIO DE ENERGIA Y MINAS SERVICIO DE GEOLOGIA Y MINERIA		
SERVICIO NACIONAL DE GEOMINERIA		
LANAVELLE 12000	SEMS 1000	No. 24 74 400
SATELITE DE TRANSITO Y SHOHAN		

POZUZO - DEPARTAMENTOS - HUANUCO Y PASCO - PERU

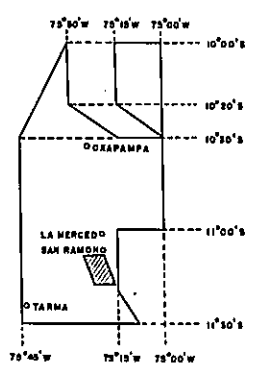




PL.AB-4 (2)

GEOLOGICAL SURVEY
OF
CENTRAL PERU REPUBLIC OF PERU
(PHASE II.)

LOCALITY MAP OF GEOCHEMICAL SAMPLE

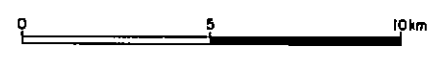


国際協力事業団	
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登録	

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

MARCH 1976
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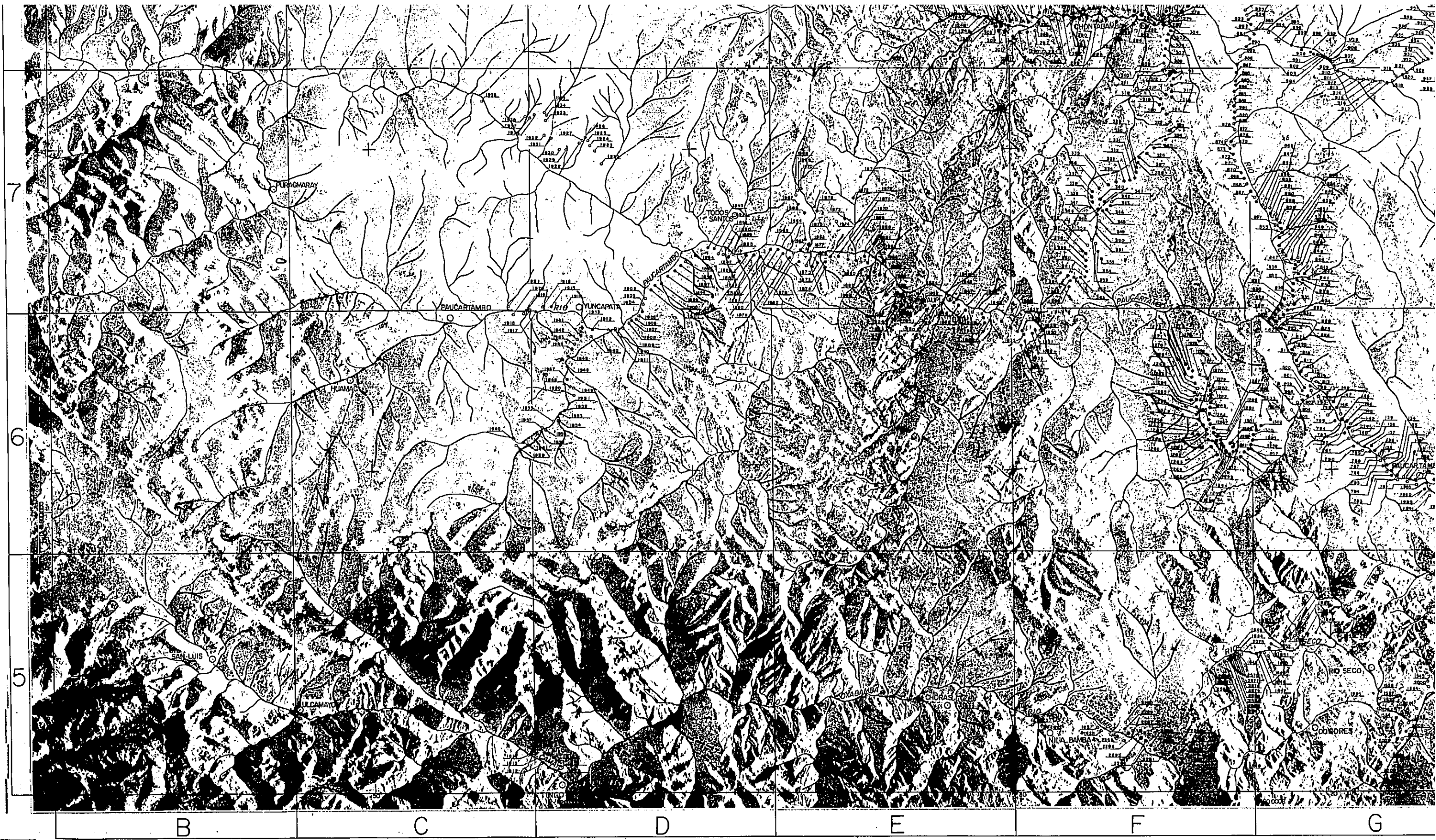
Scale 1 : 100,000



LEGEND

- 2395 Locality & number of soil sample.
- 2396 Locality & number of stream sediment sample.

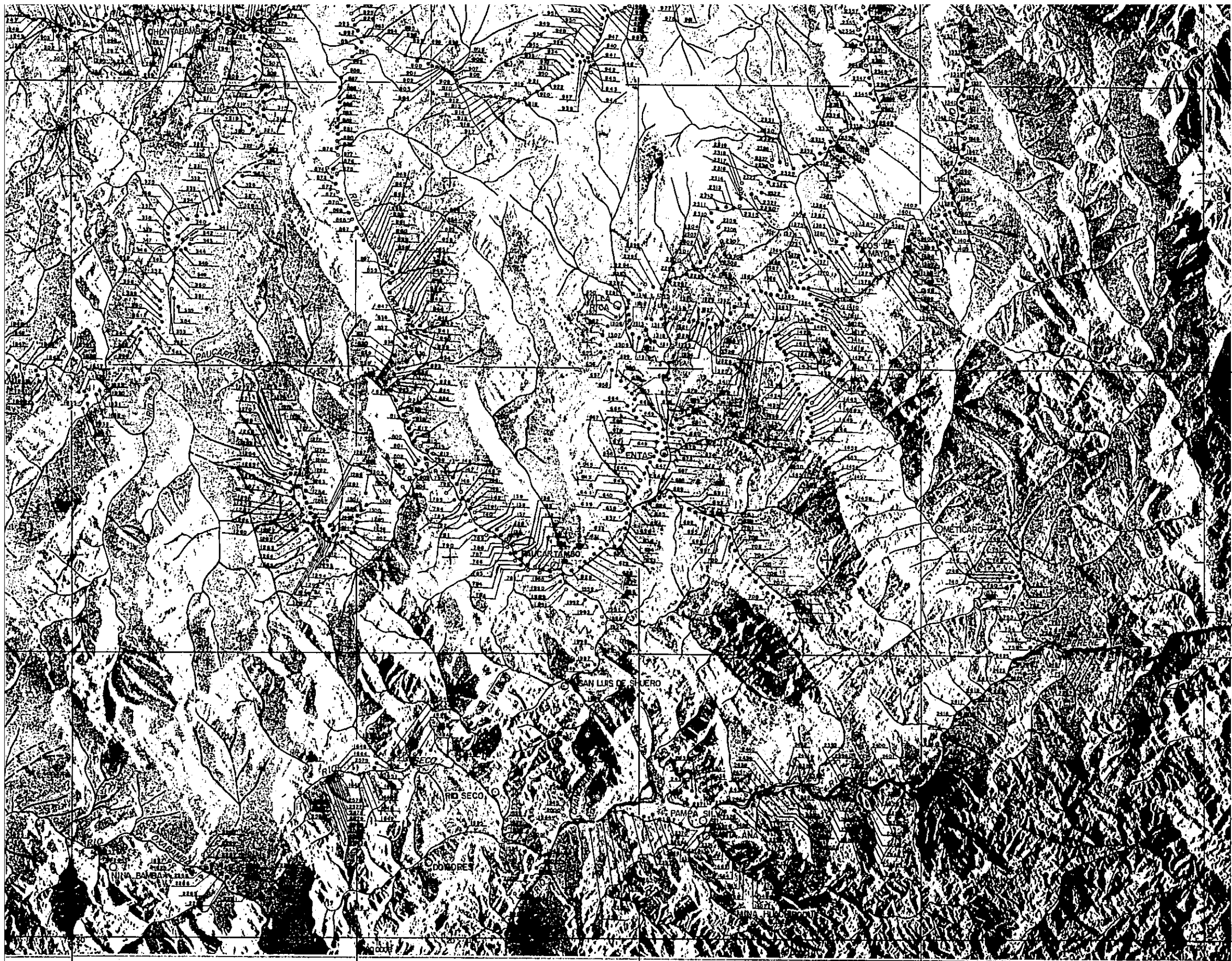
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ES TROPICAL DEL 197

GOOD YEAR
AEROSPACE

AERO SERVICE
LITTON Houston, Texas 77001

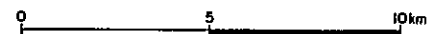


国際協力事業団
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 目
 地球No.

METAL MINING AGENCY OF JAPAN
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 GOVERNMENT OF JAPAN

MARCH 1976
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Scale 1 : 100,000



LEGEND

- 2382 Locality & number of soil sample.
- 2396 Locality & number of stream sediment sample.

F

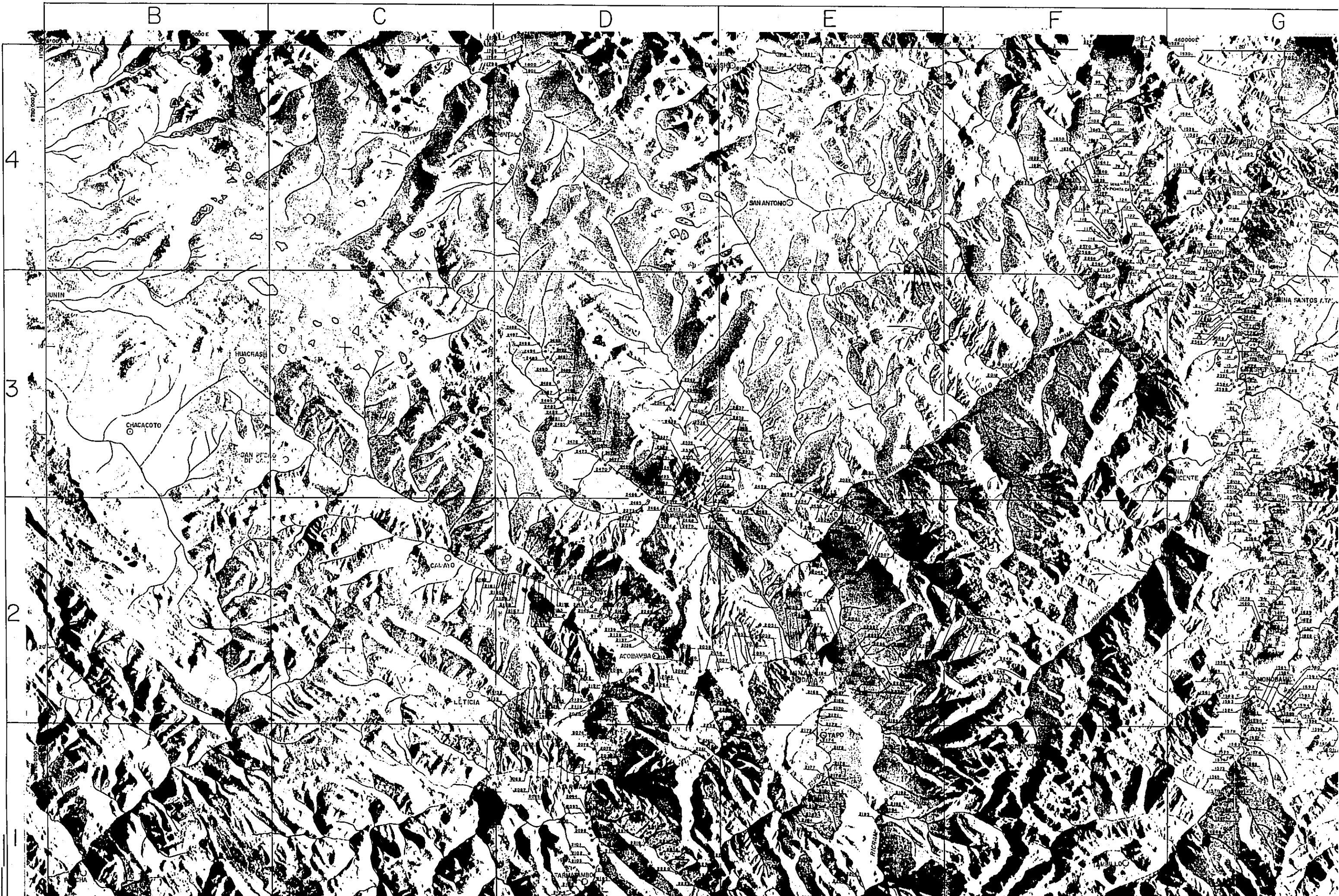
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MINISTERIO DE ENERGIA Y MINAS SERVICIO DE GEOLOGIA Y MINERIA		
VIA DE ACCESO A ULUCUMAYO		
A	1:100 000	3024,60 km ²
CARAVELLE	12000	GEMS 1000
U.T.M. SATELITE DE TRANSITO Y SHORAN		

ULCUMAYO - DEPARTAMENTOS - JUNIN Y PASCO - PERU



F G H I

PL.AB-4 (3)

GEOLOGICAL SURVEY
OF
CENTRAL PERU . REPUBLIC OF PERU
(PHASE II)

LOCALITY MAP OF GEOCHEMICAL SAMPLE

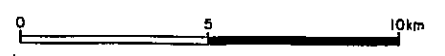
国際協力事業団	
名称	
登録No.	

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

MARCH 1976

prepared by MITSUI KINZOKU ENGINEERING SERVICE CO., LTD

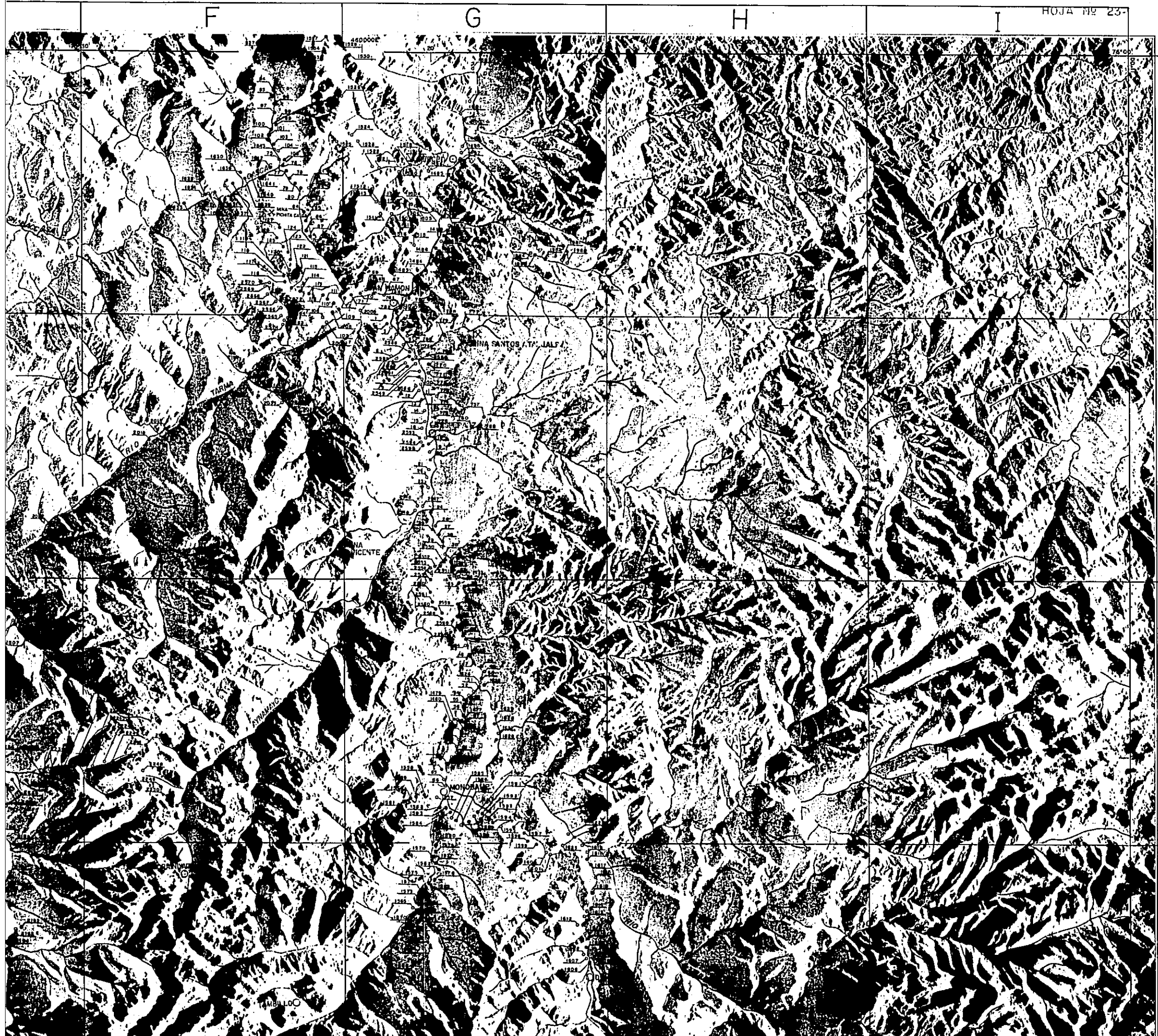
Scale 1 : 100,000

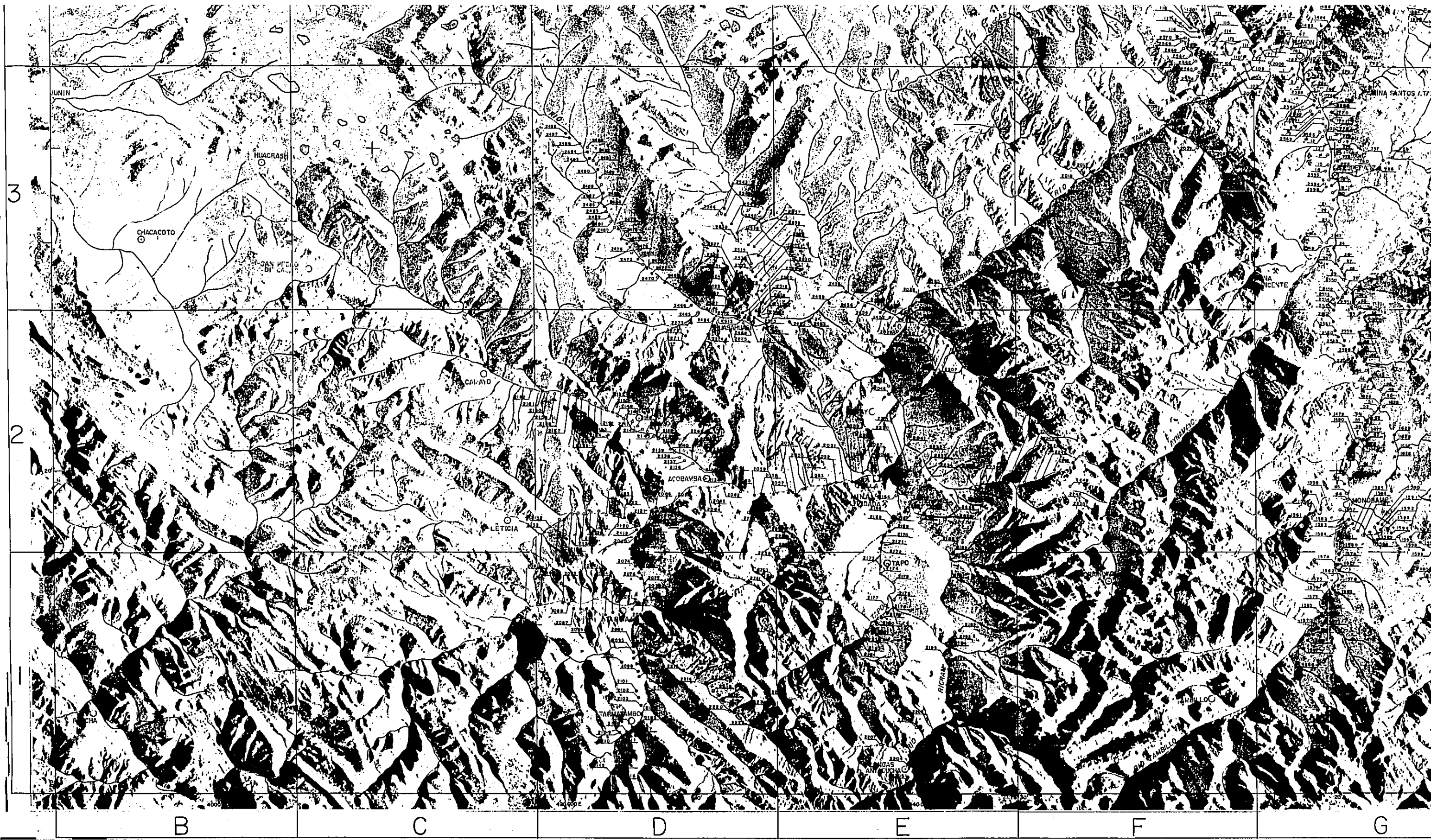


LEGEND

- 2395 Locality & number of soil sample.
- 2396 Locality & number of stream sediment sample.

4
3
2
1

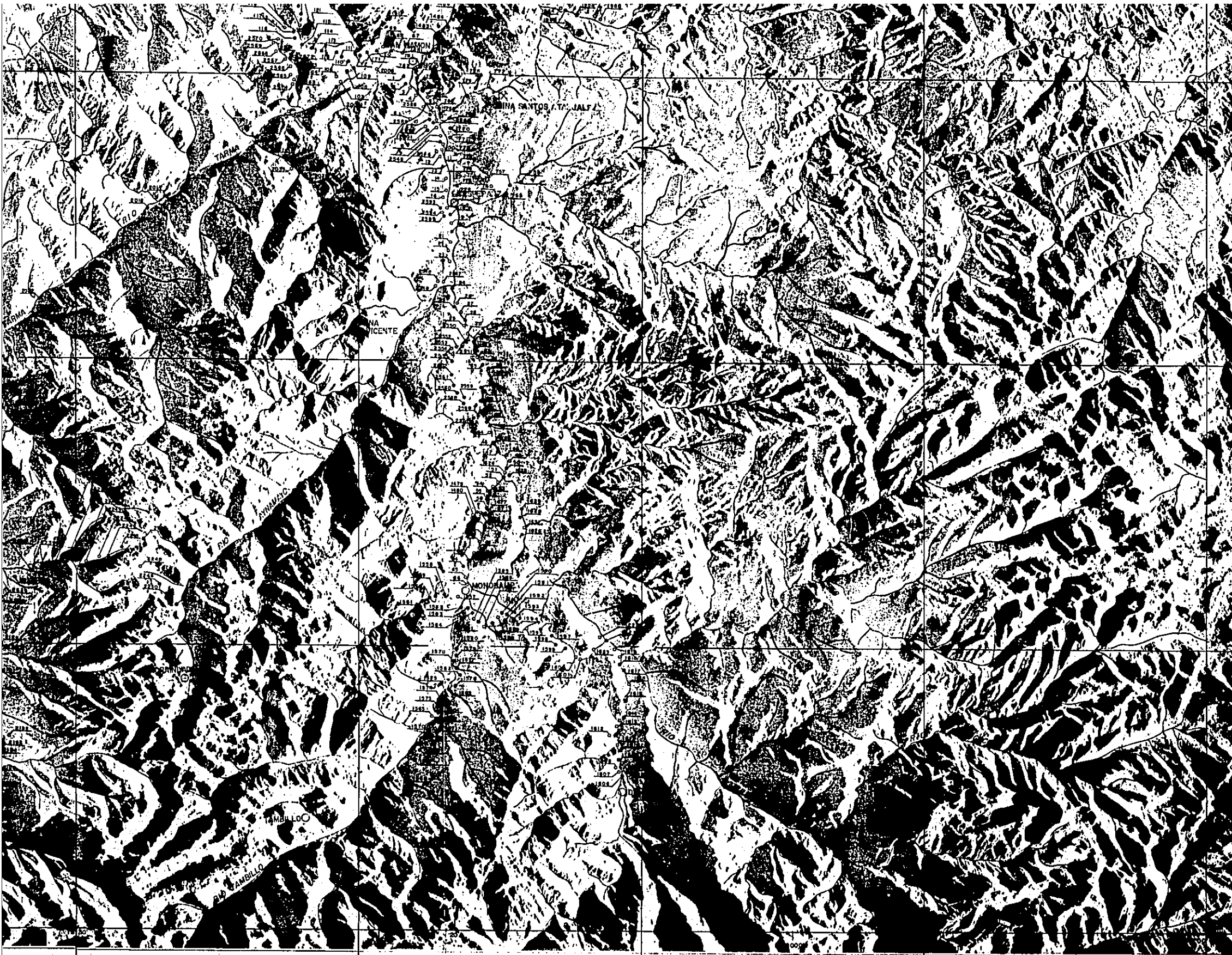




ESTADOS UNIDOS DE AMERICA

GOODYEAR
AEROSPACE

AERO SERVICE
LITON



3

2

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F

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H

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9°45'

REPUBLICA DEL PERU MINISTERIO DE ENERGIA Y MINAS SERVICIO DE GEOLOGIA Y MINERIA			
EVALUAMIENTO DE RIZADO LATERAL DE LA FORESTERA ORIENTAL Y VALLES INTERANDINOS			
MOSAICO DE RADAR CONTROLADO			
23-	DECEMBRE 1974 FEBRERO 1974	1:100 000	AREA PLANIMETRICA 3019,58 km ²
CARAVELLE	12000 m	GEMS 1000	
U.T.M.	SATELITE DE TRANSITO Y SHORAN		

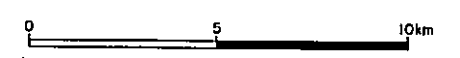
TARMA - LA MERCED - DEPARTAMENTOS - JUNIN - PERU

国際協力事業団	
加入	
刊行	
登録No.	

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

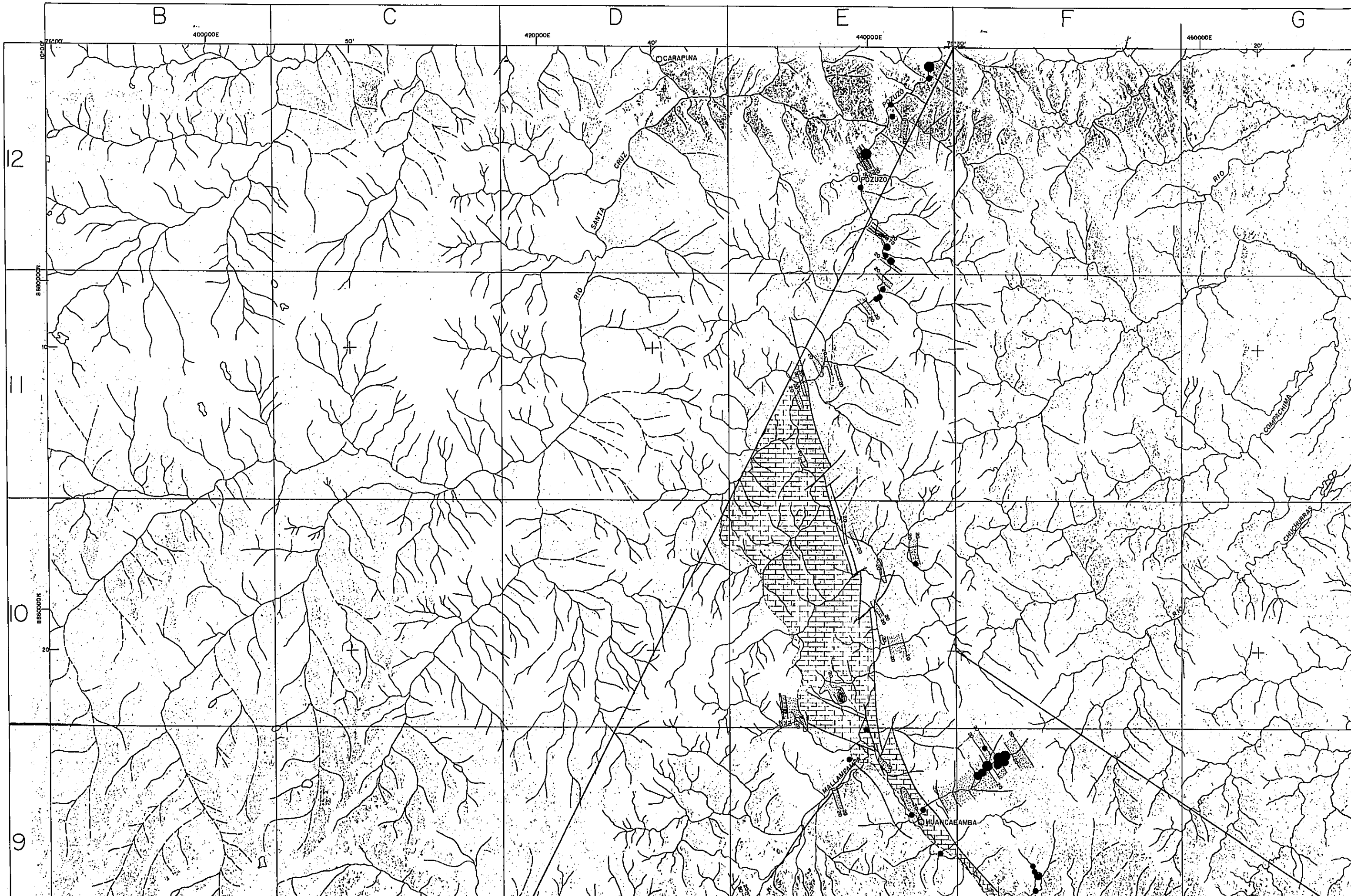
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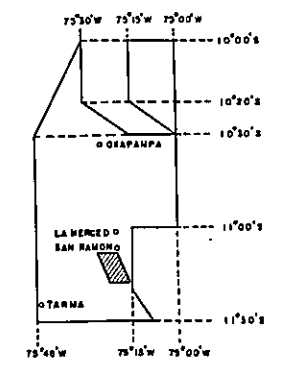
LEGEND

- 2393 Locality & number of soil sample.
- 2386 Locality & number of stream sediment sample.



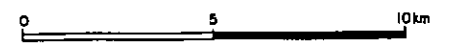
PL. AB-5(1)

GEOLOGICAL SURVEY
OF
CENTRAL PERU REPUBLIC OF PERU
(PHASE II)
GEOCHEMICAL MAP OF THE SURVEYED AREA
(Cu)



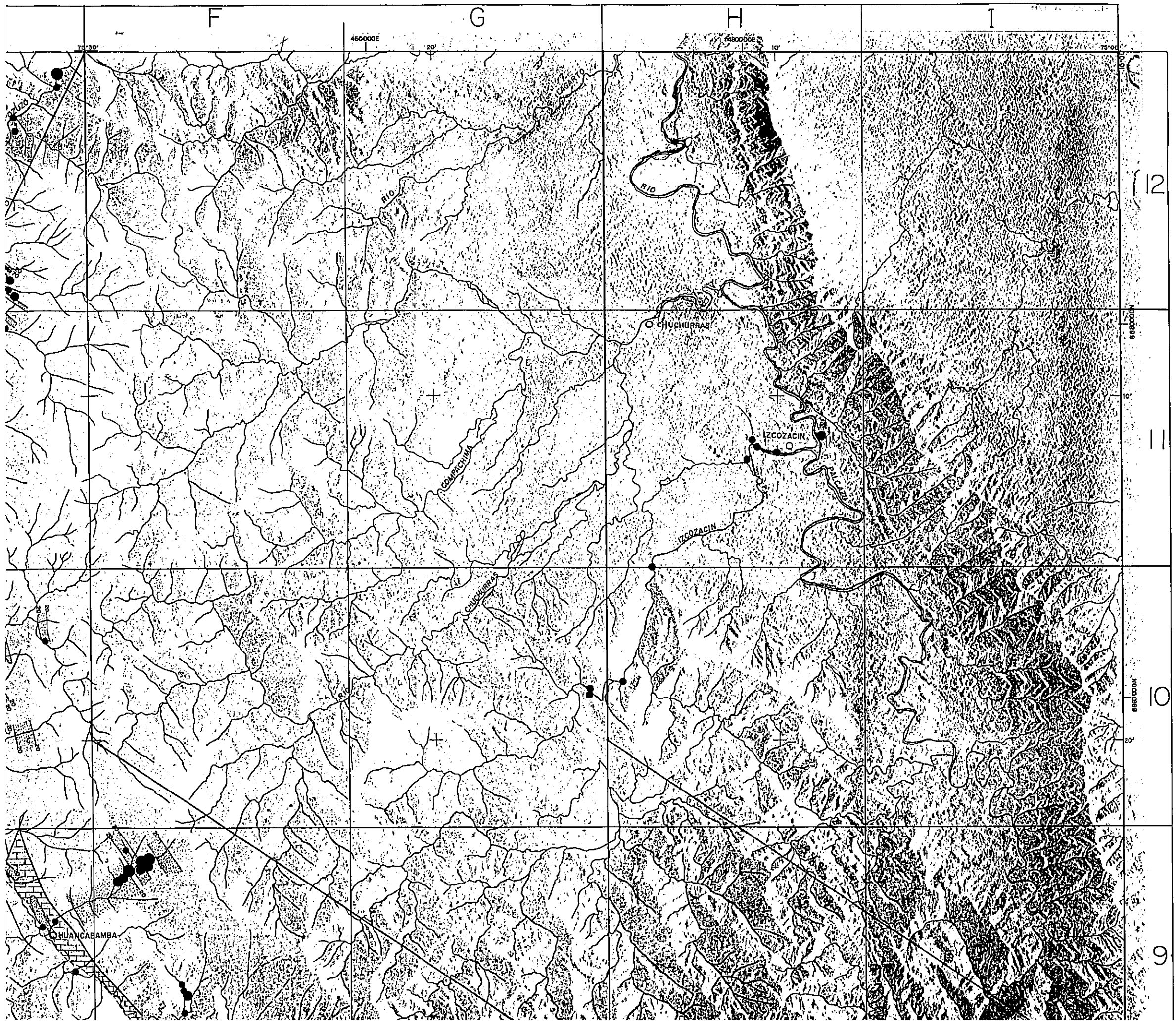
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MARCH 1976
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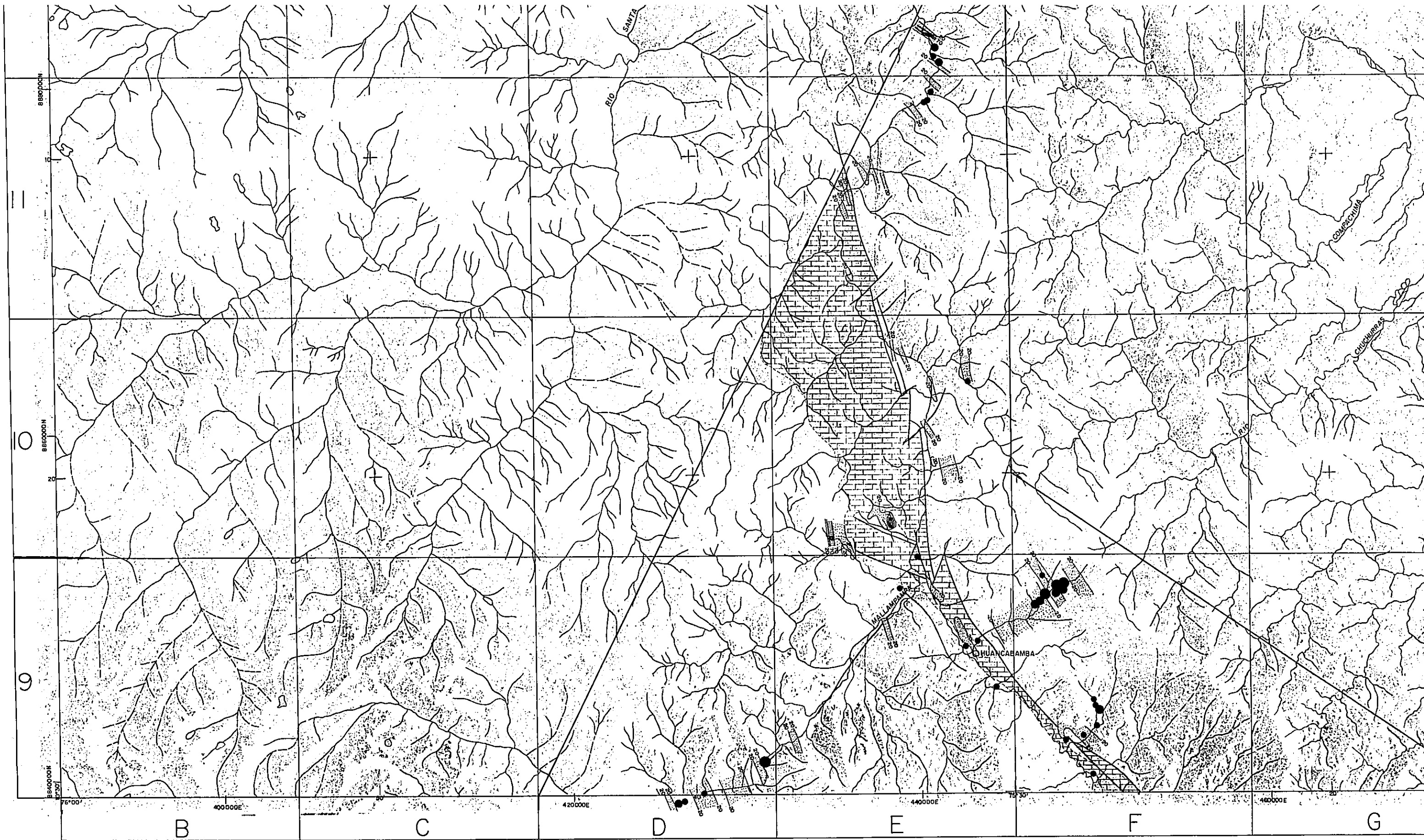
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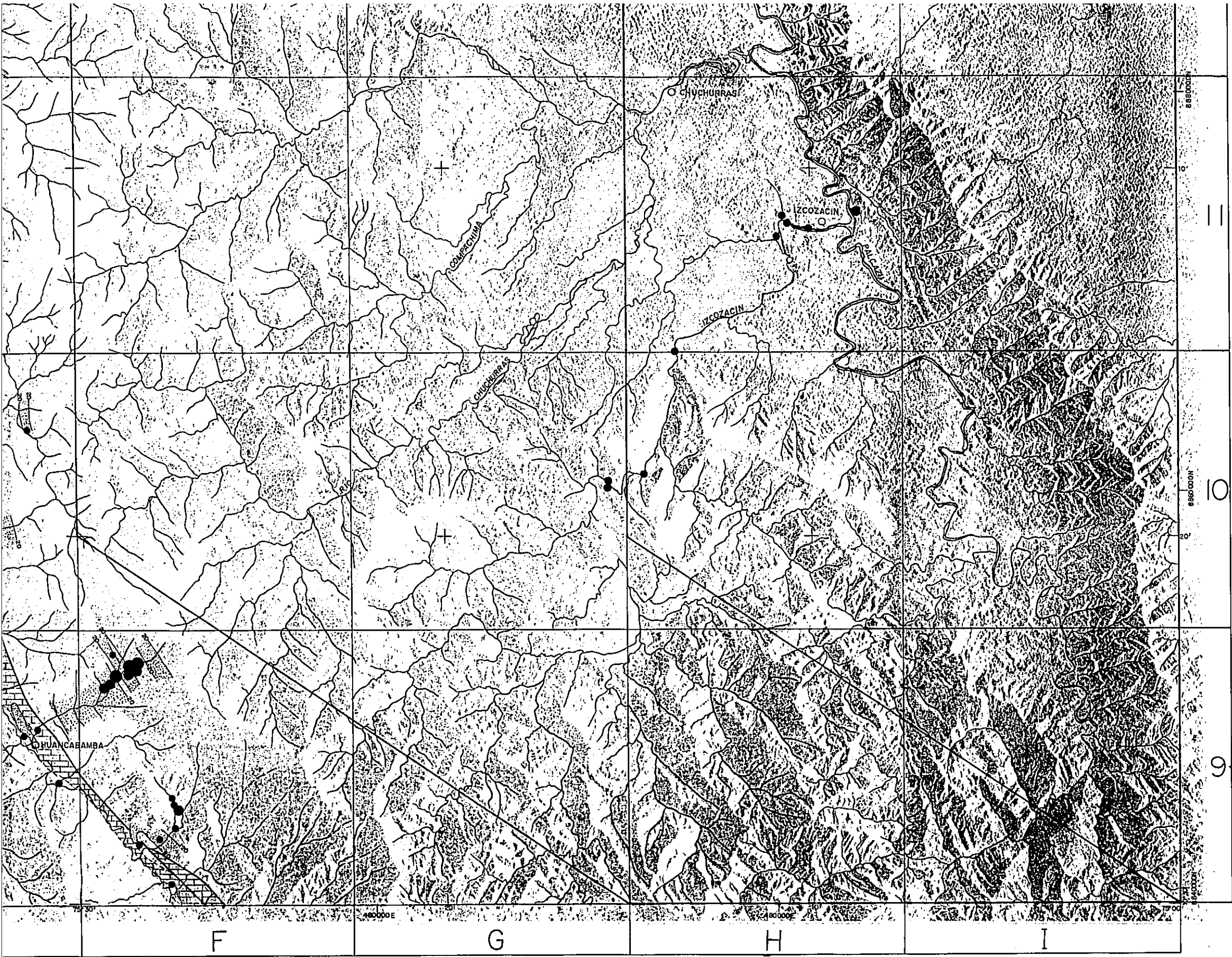


LEGEND

SOILS	STREAM SEDIMENTS
120 PPM	40PPM ≤ n
70 PPM	30PPM ≤ n < 40PPM
20 PPM	20PPM ≤ n < 30PPM
Pucara Group	n < 20PPM

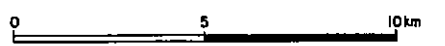






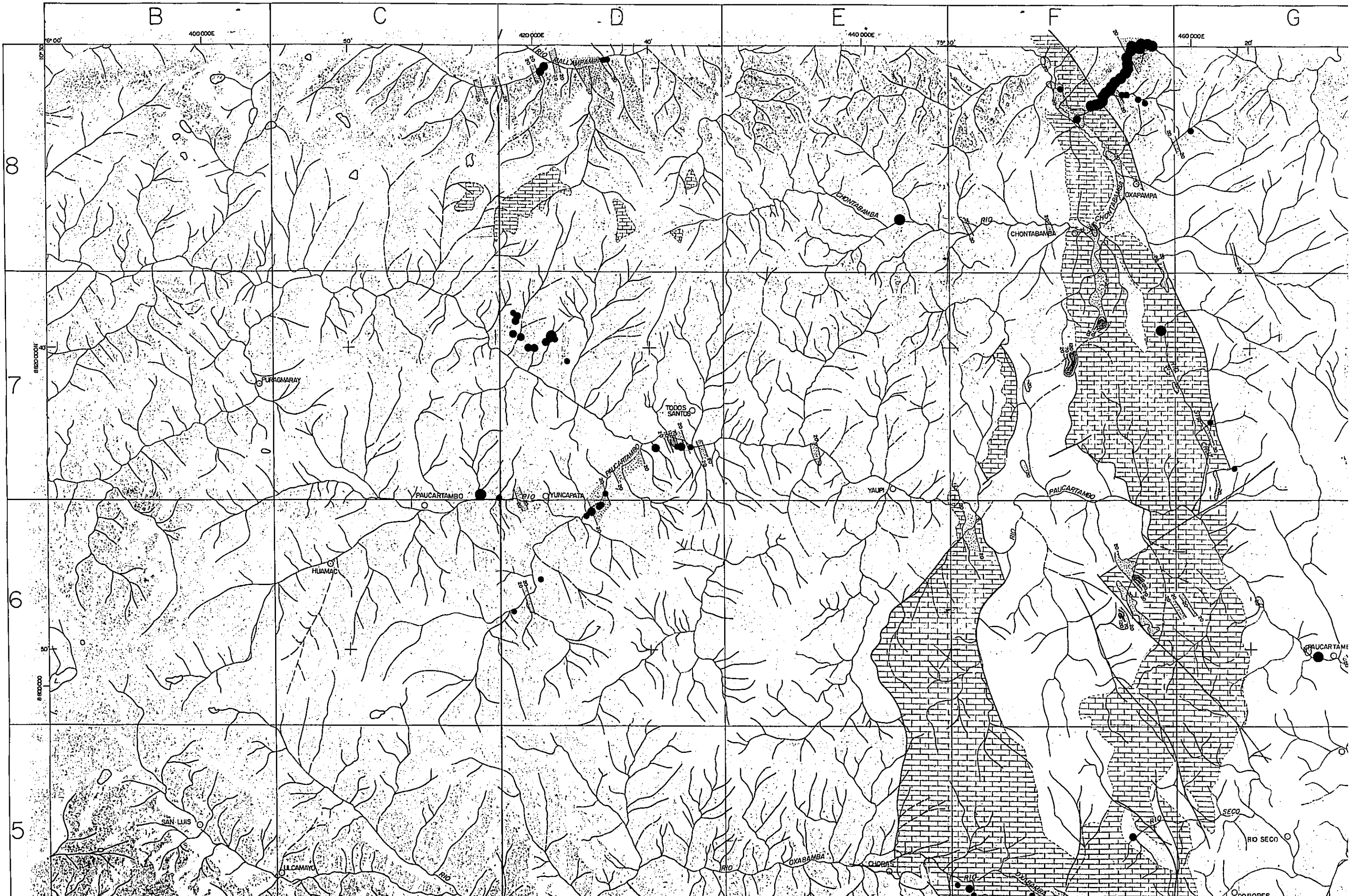
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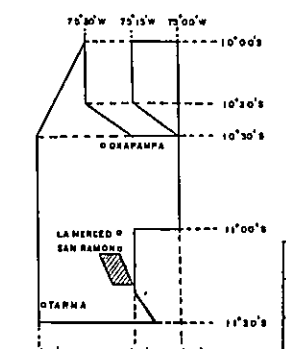
LEGEND

- | <u>SOILS</u> | | <u>STREAM SEDIMENTS</u> | |
|--------------|--------------|-------------------------|-------------------|
| | 120 PPM | | 40PPM ≤ n |
| | 70 PPM | | 30PPM ≤ n < 40PPM |
| | 20 PPM | | 20PPM ≤ n < 30PPM |
| | Pucara Group | | n < 20PPM |



PL. AB-5(2)

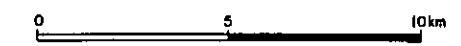
GEOLOGICAL SURVEY
OF
CENTRAL PERU REPUBLIC OF PERU
(PHASE II)
GEOCHEMICAL MAP OF THE SURVEYED AREA
(Cu)



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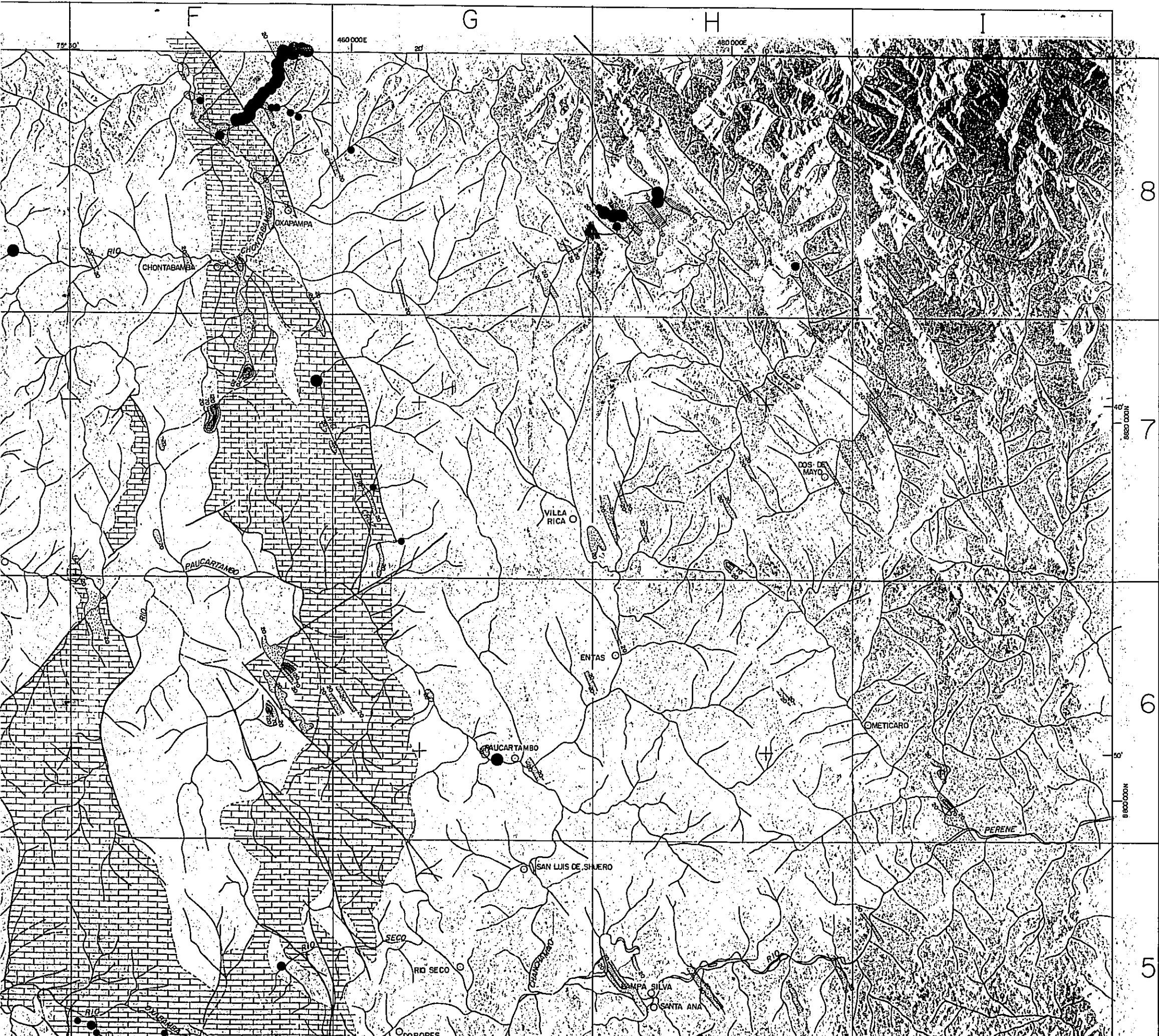
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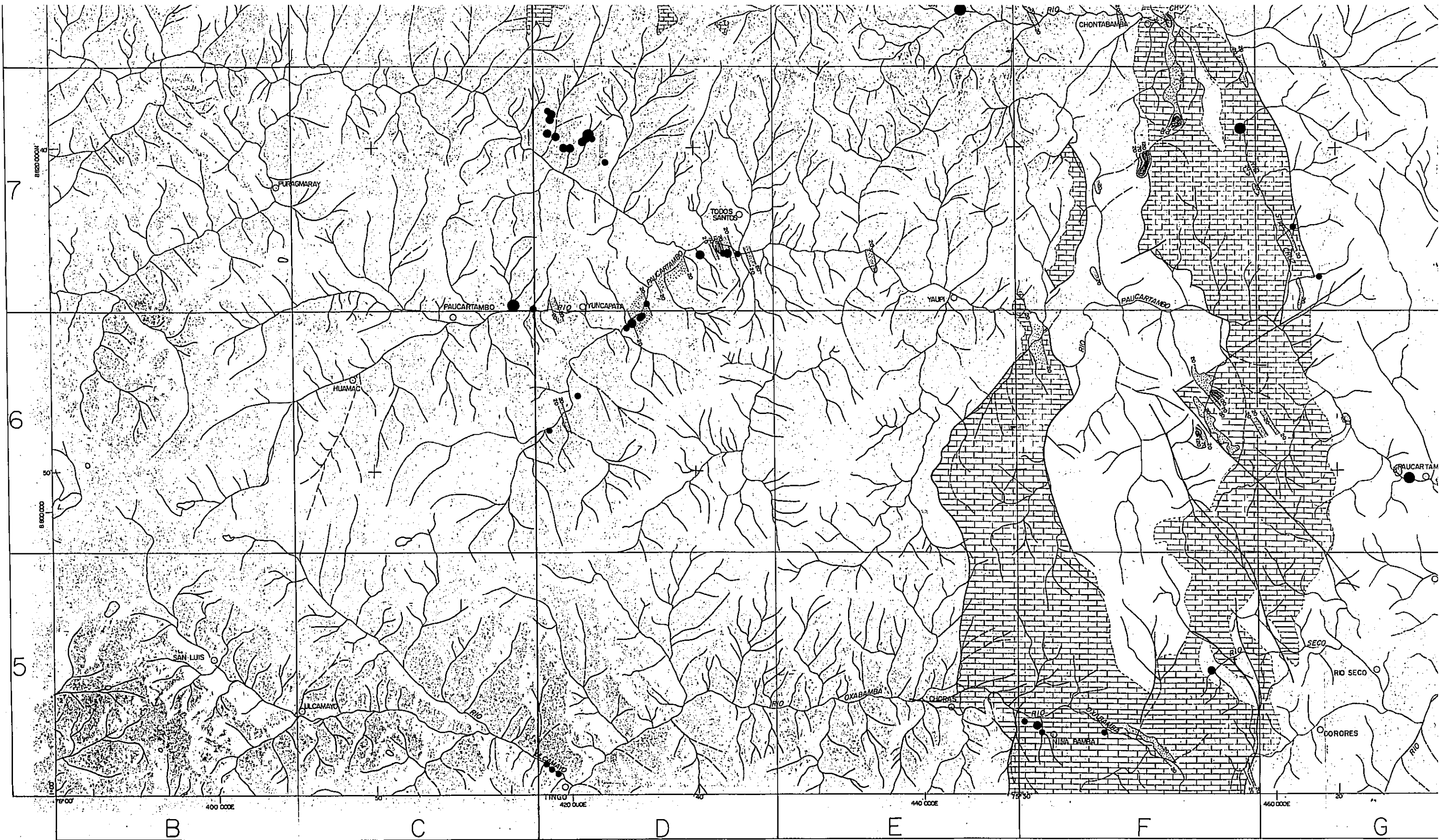
Scale 1:100,000



LEGEND

- | SOILS | STREAM SEDIMENTS |
|--------------|-------------------|
| 120 PPM | 40PPM ≤ n |
| 70 PPM | 30PPM ≤ n < 40PPM |
| 20 PPM | 20PPM ≤ n < 30PPM |
| Pucara Group | n < 20PPM |





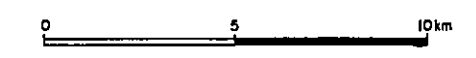
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MARCH 1976

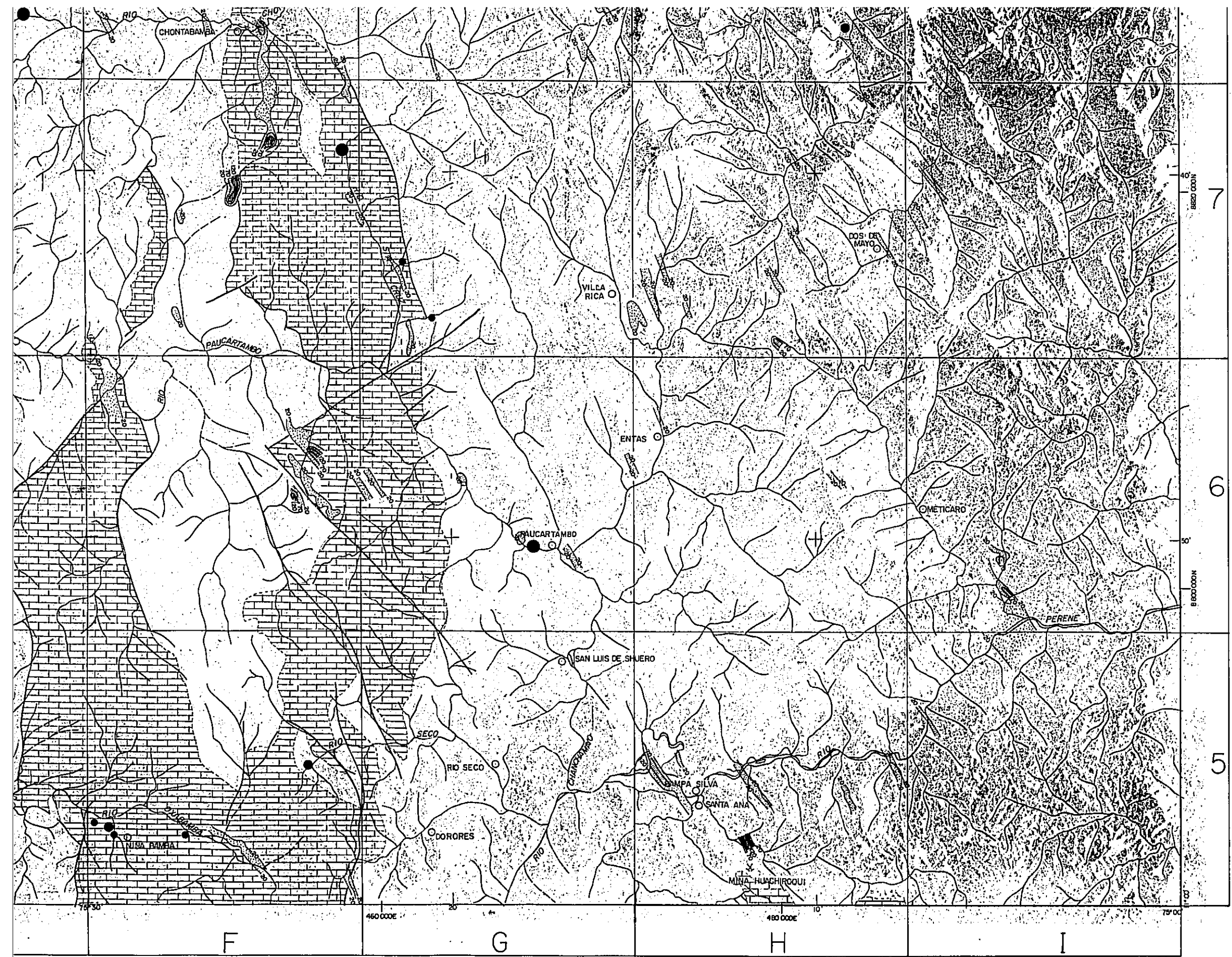
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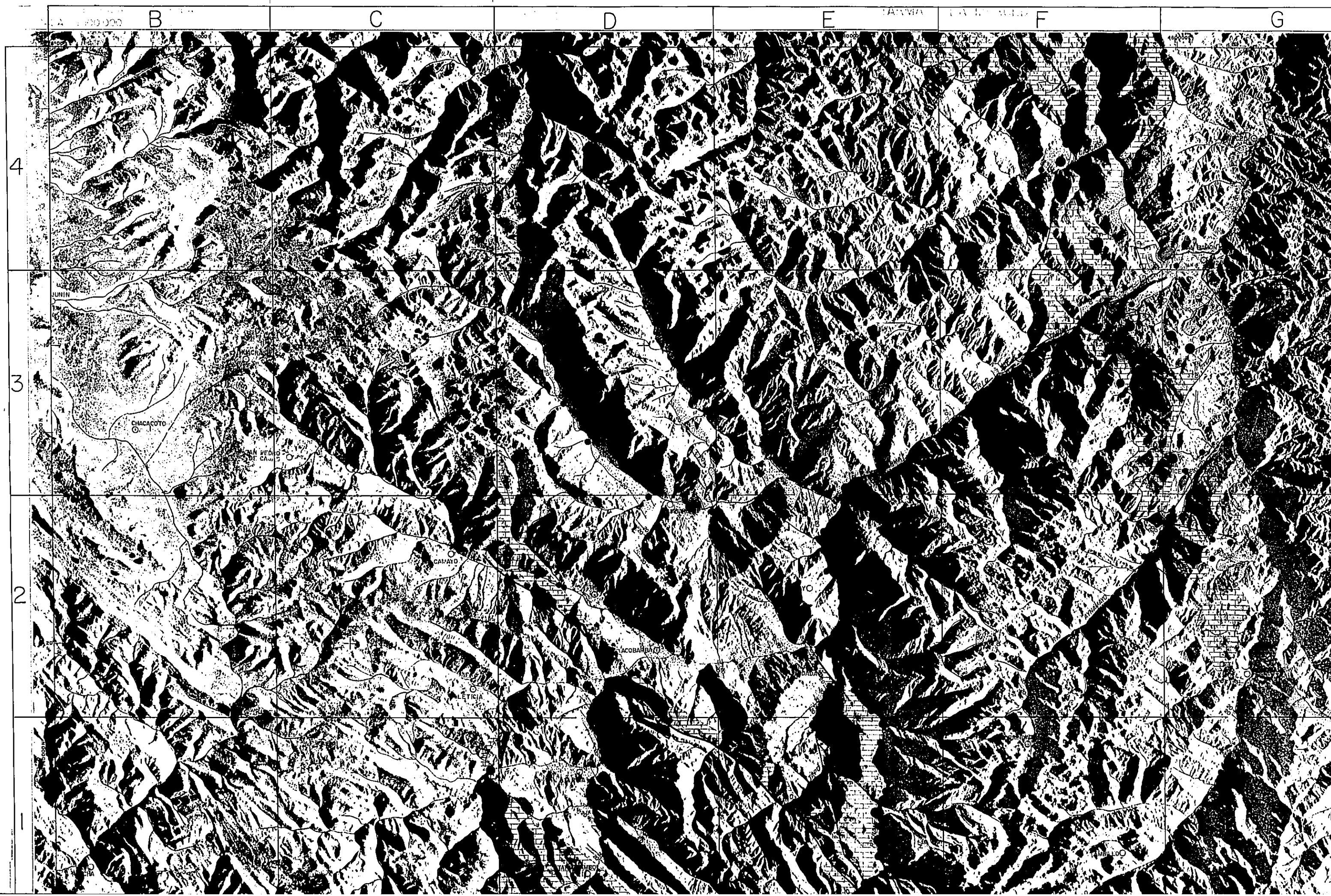
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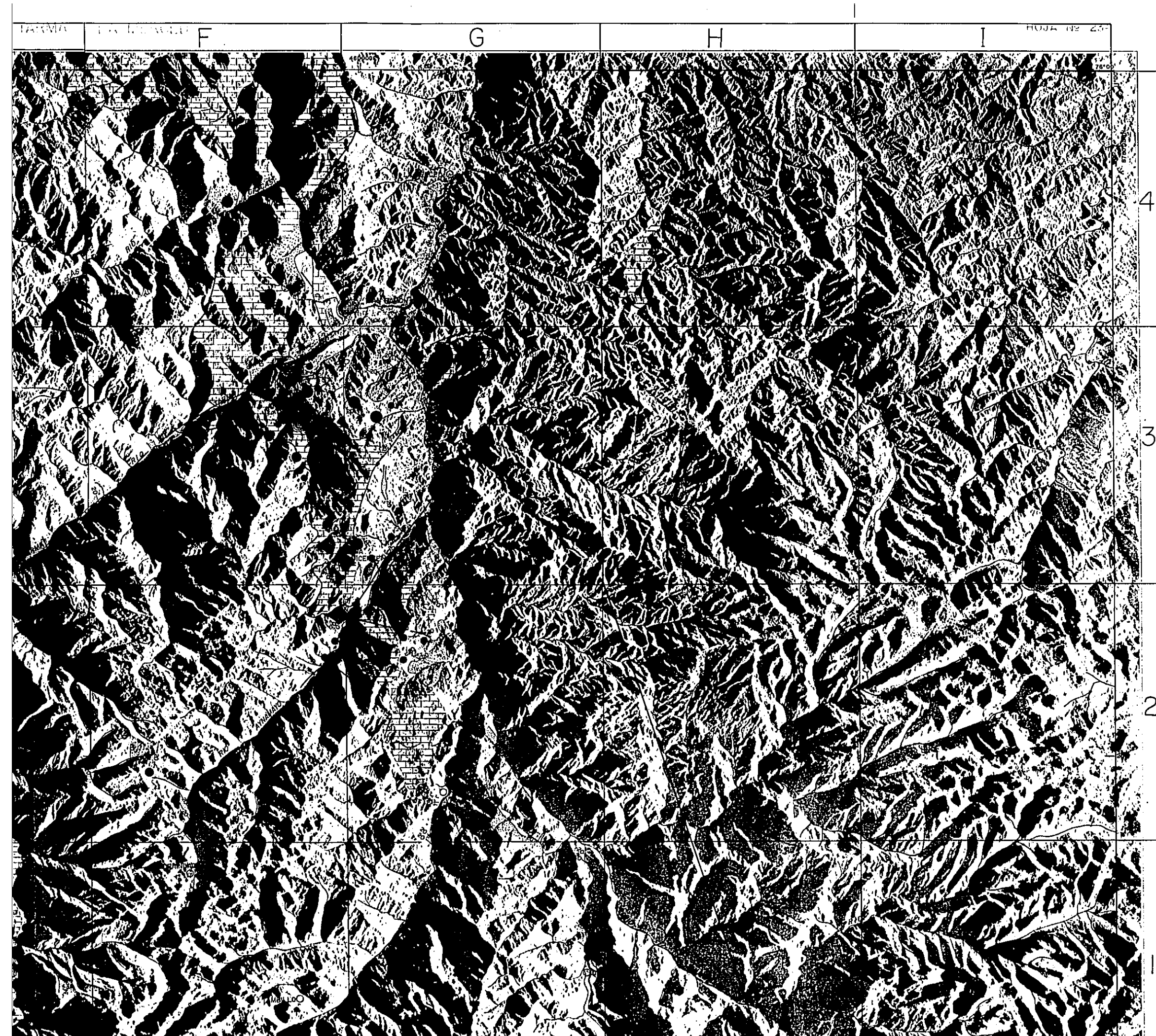


LEGEND

- | SOILS | STREAM SEDIMENTS |
|--------------|---------------------|
| 120 PPM | 40 PPM ≤ n |
| 70 PPM | 30 PPM ≤ n < 40 PPM |
| 20 PPM | 20 PPM ≤ n < 30 PPM |
| Pucara Group | n < 20 PPM |







PL. AB-5(3)

GEOLOGICAL SURVEY
OF
CENTRAL PERU REPUBLIC OF PERU
(PHASE II)

GEOCHEMICAL MAP OF THE SURVEYED AREA
(Cu)

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MARCH 1976

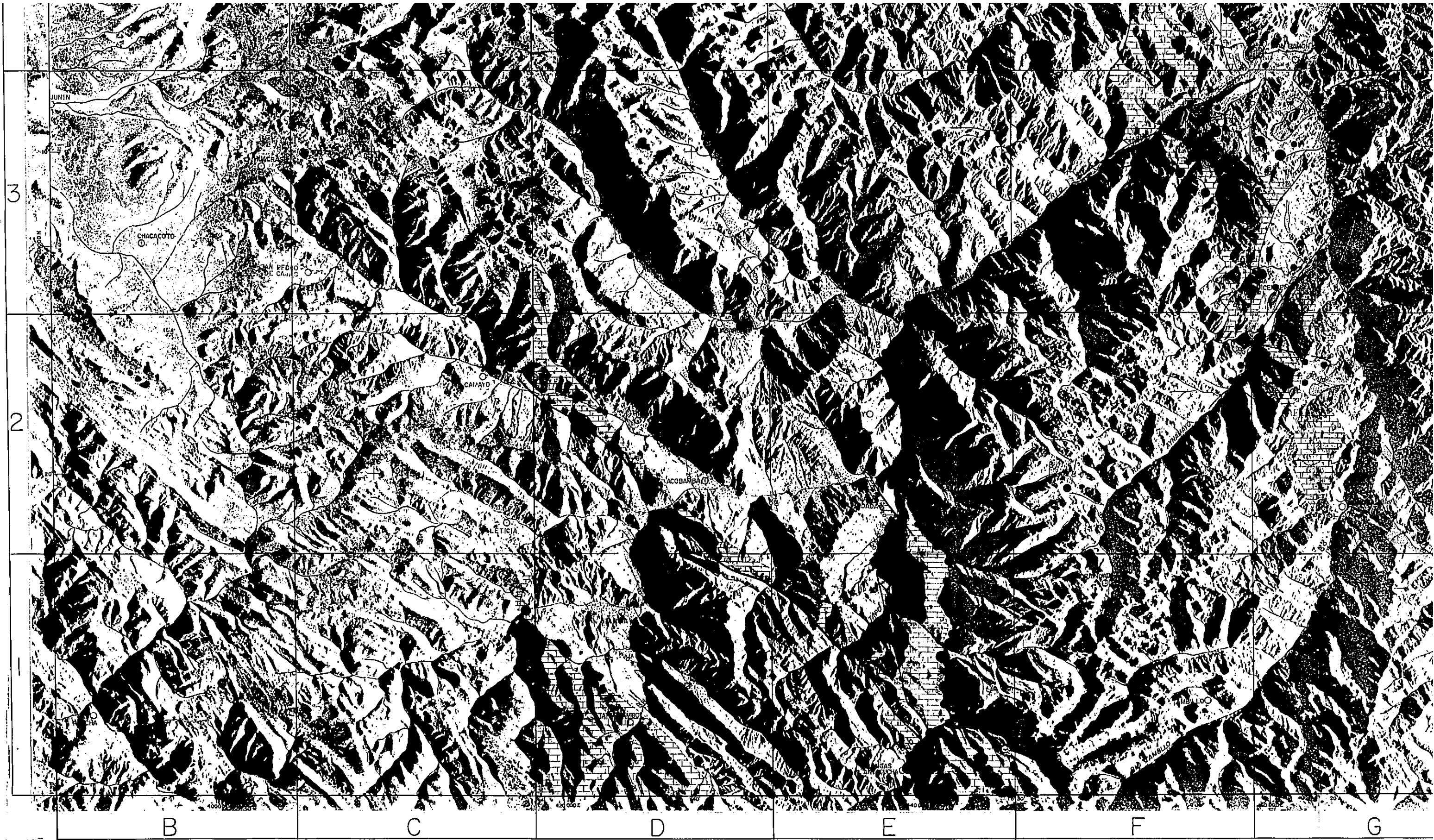
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Scale 1 : 100,000



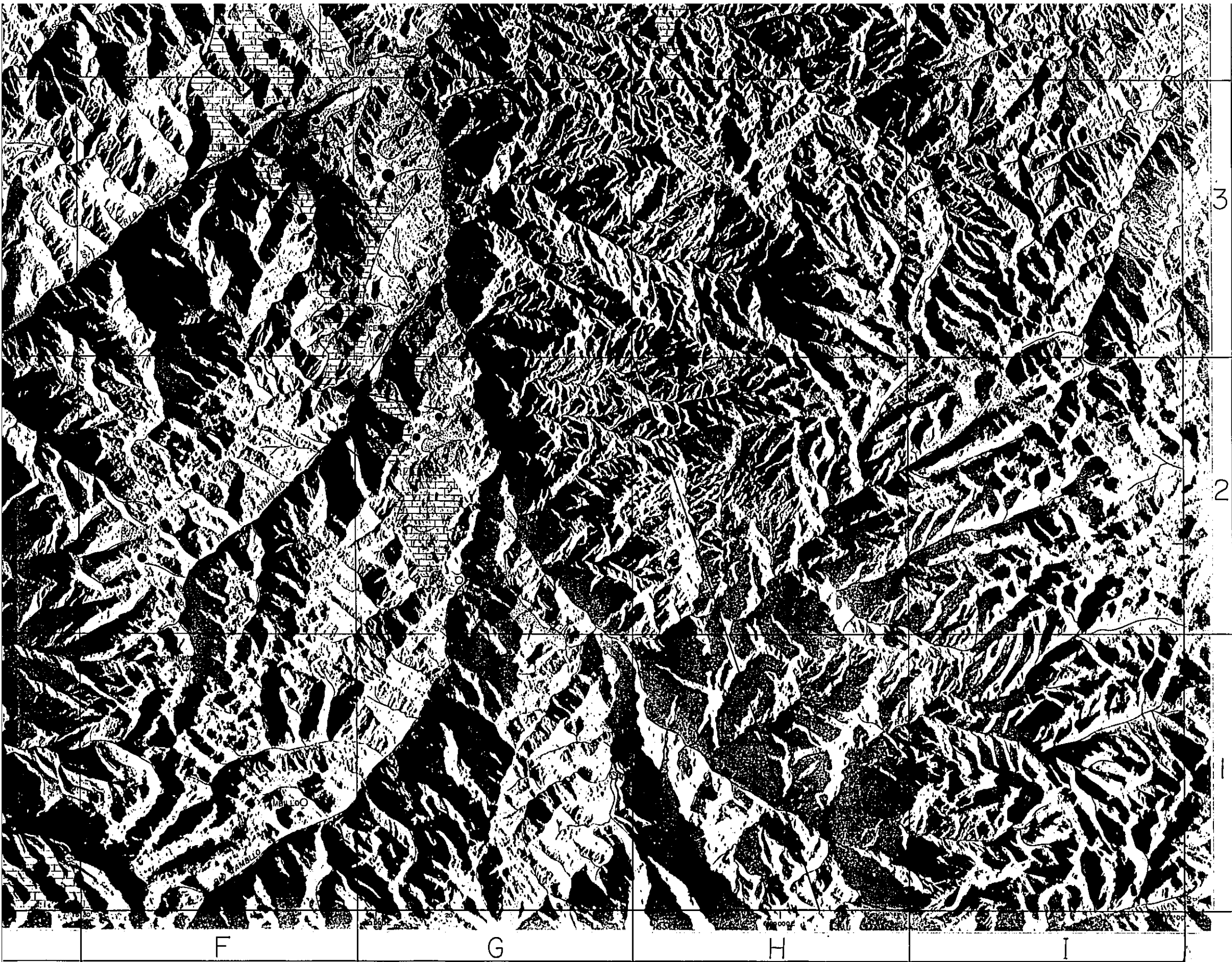
LEGEND

- | | |
|---|--|
| <p><u>SOILS</u></p> <ul style="list-style-type: none"> 120 PPM 70 PPM 20 PPM Pucara Group | <p><u>STREAM SEDIMENTS</u></p> <ul style="list-style-type: none"> 40PPM ≤ n 30PPM ≤ n < 40PPM 20PPM ≤ n < 30PPM n < 20PPM |
|---|--|



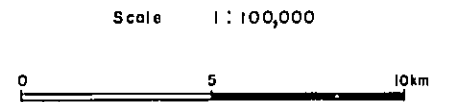
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LEGEND

<u>SOILS</u>	<u>STREAM SEDIMENTS</u>
120 PPM	● 40PPM ≤ n
70 PPM	● 30PPM ≤ n < 40PPM
20 PPM	● 20PPM ≤ n < 30PPM
Pucara Group	○ n < 20PPM