

国際協力事業団

11636

図書資料室蔵書

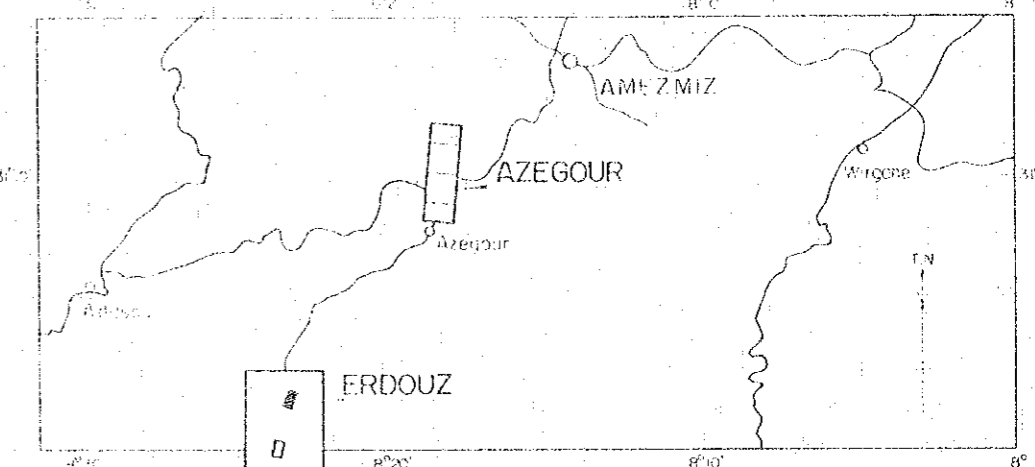
GEOLOGICAL SURVEY

OF

HAUT ATLAS OCCIDENTAL AREA, MOROCCO

(PHASE I)

GEOCHEMICAL MAP FOR Cu, Pb AND Zn IN ERDOUZ NORTH



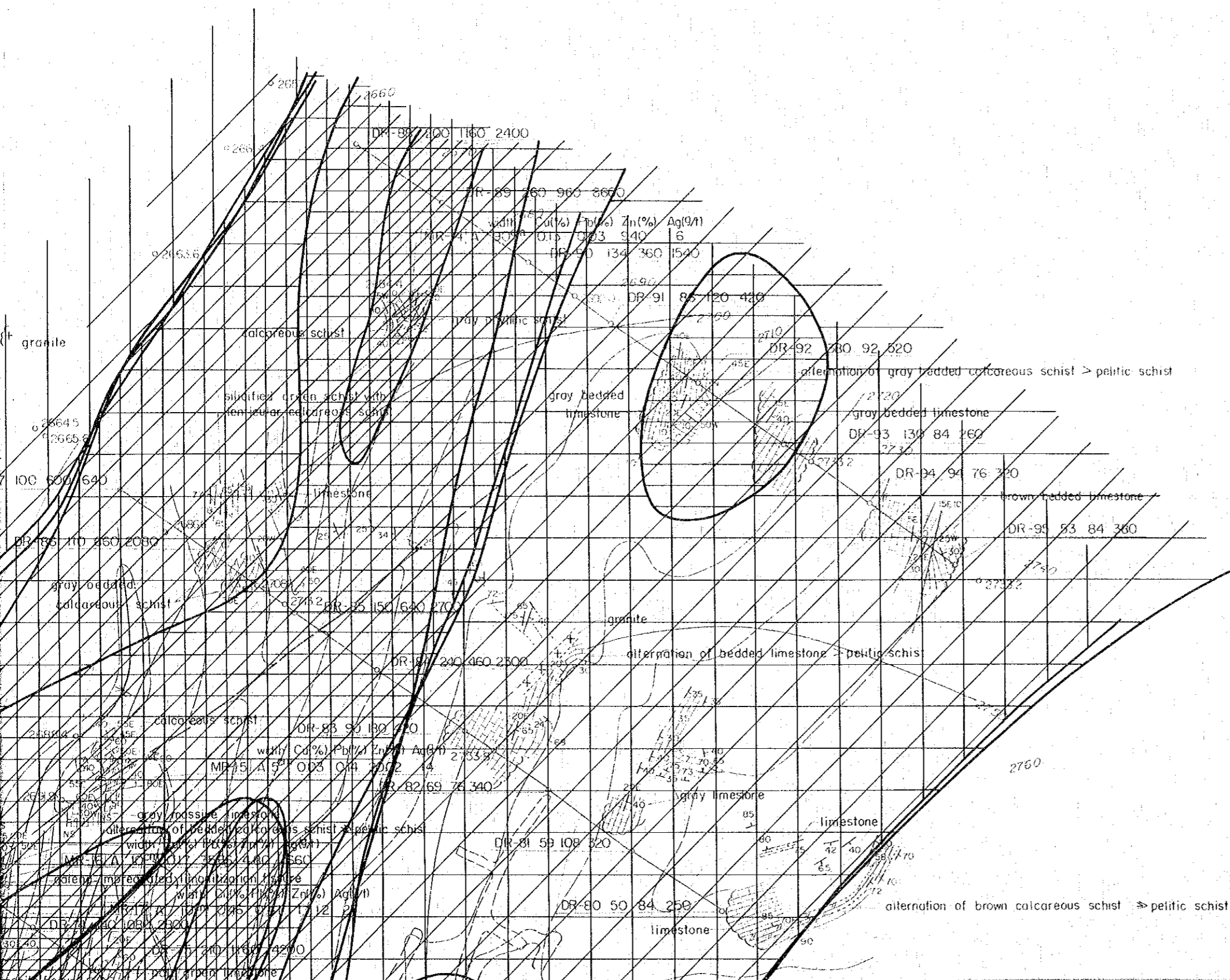
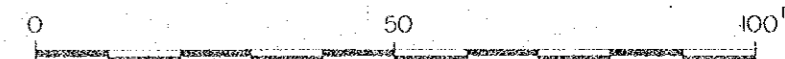
JAPAN INTERNATIONAL COOPERATION AGENCY

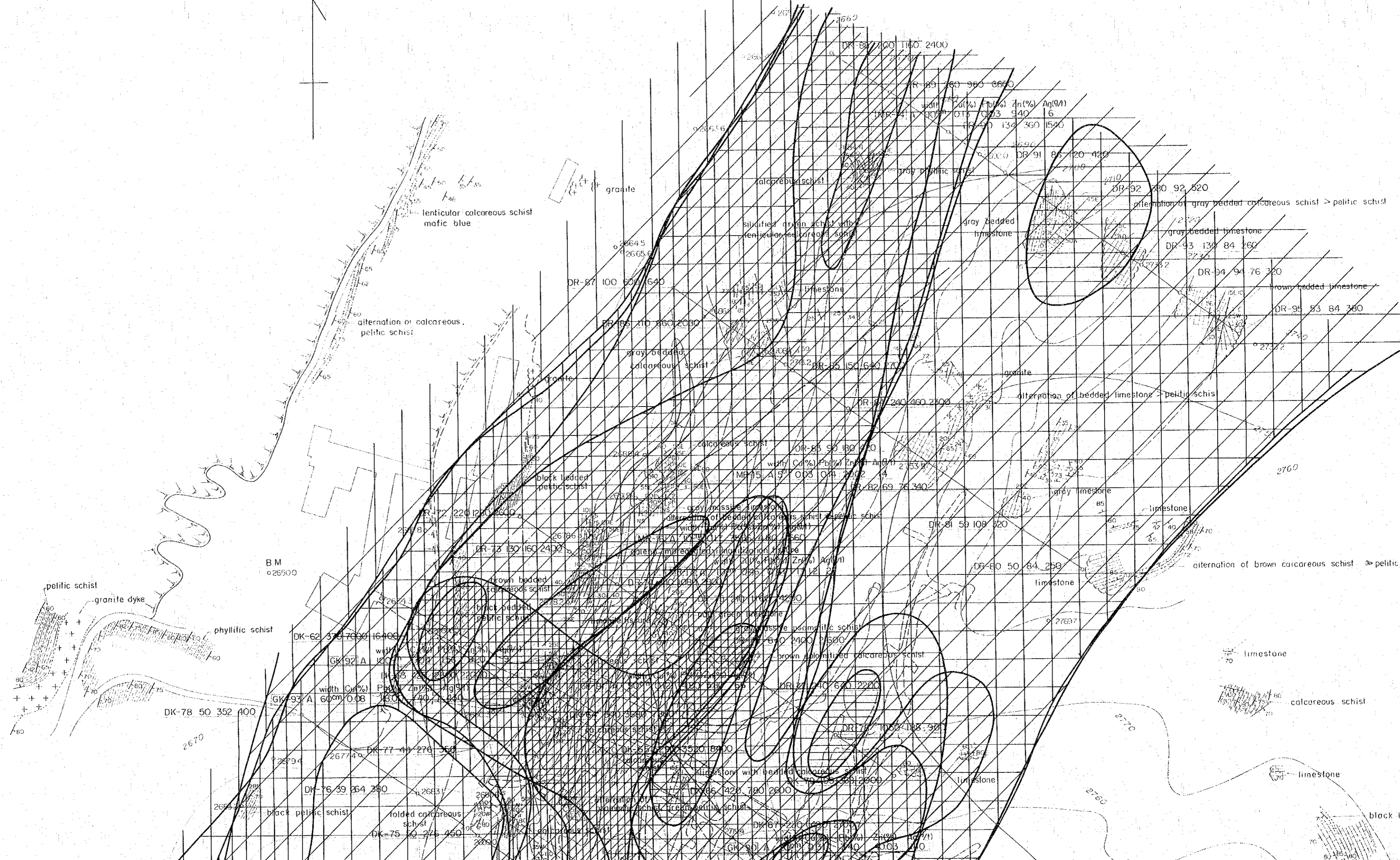
METAL MINING AGENCY OF JAPAN

JANUARY 1984

Prepared by MINDECO

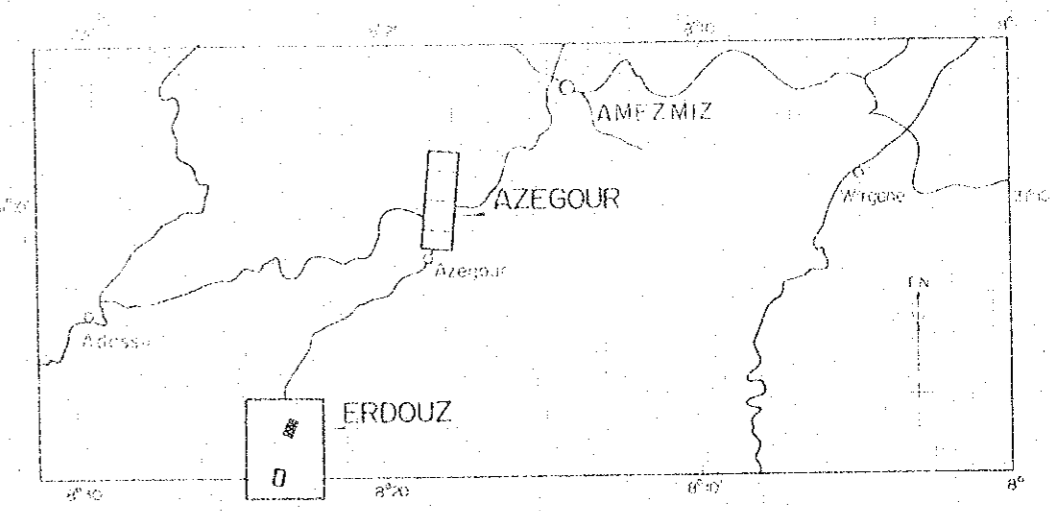
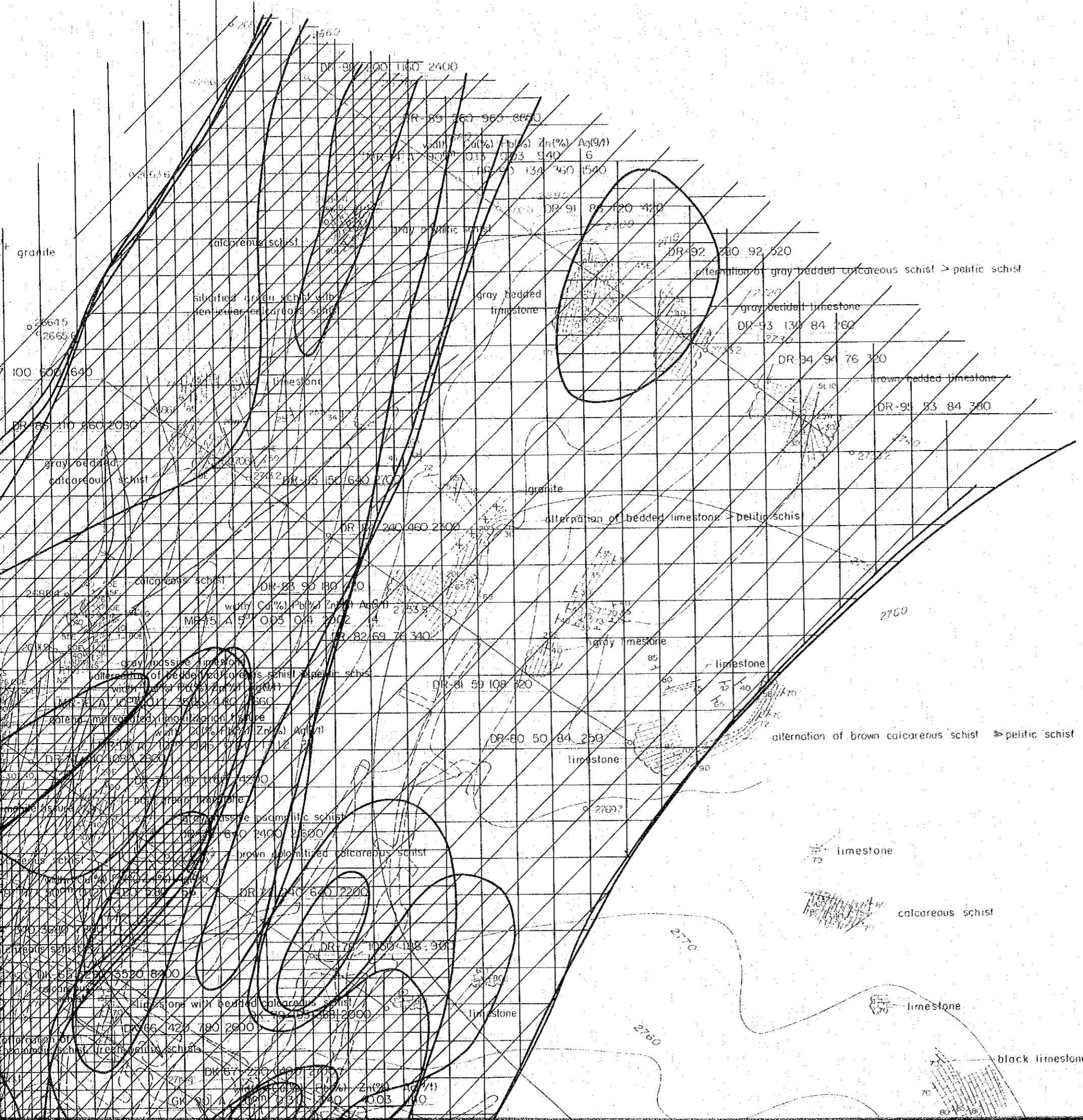
Scale 1:1,000





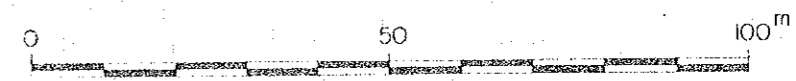
GEOCHEMICAL MAP FOR Cu, Pb AND Zn

IN ERDOUZ NORTH



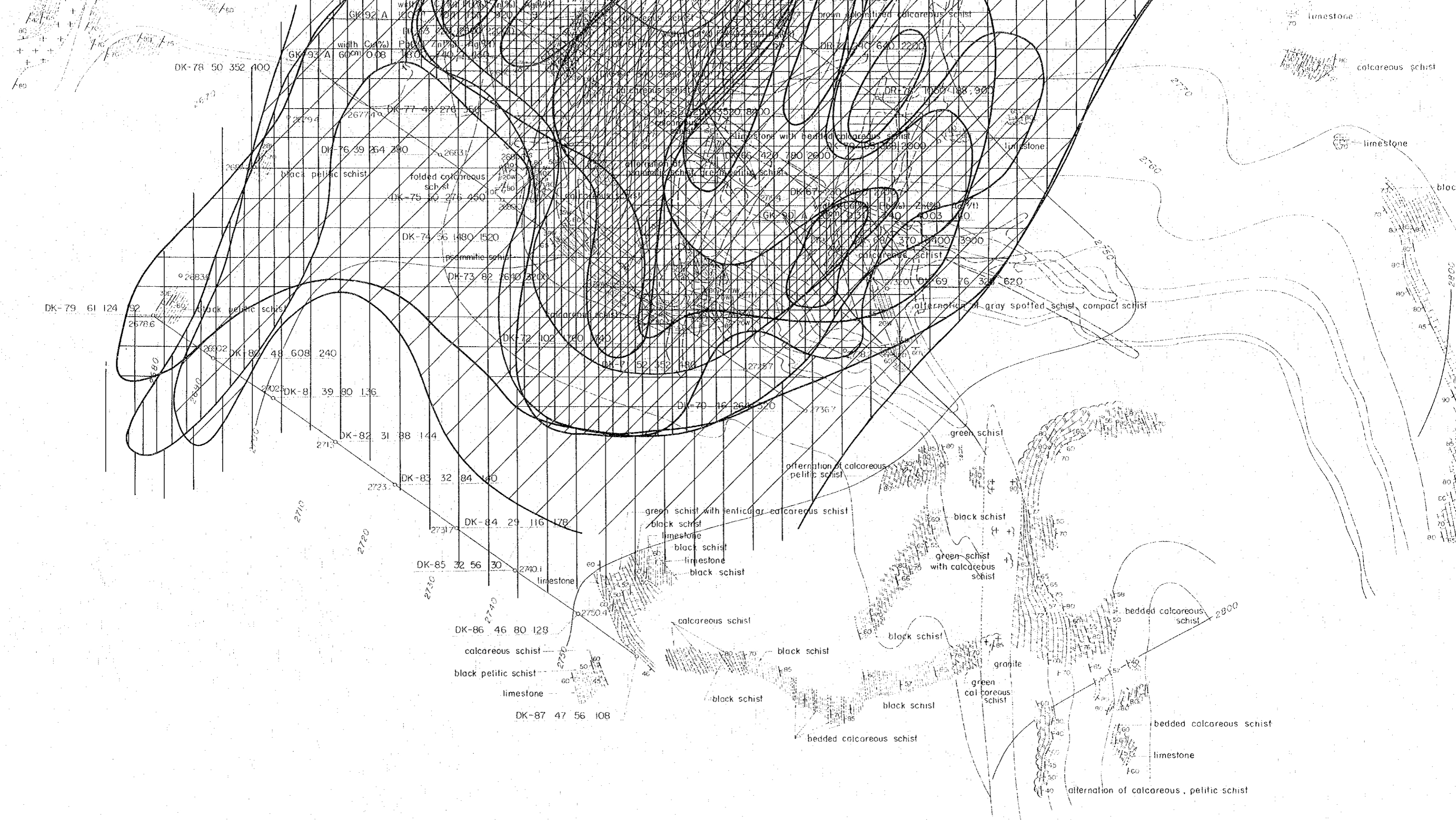
JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 JANUARY 1984
 Prepared by MINDECO

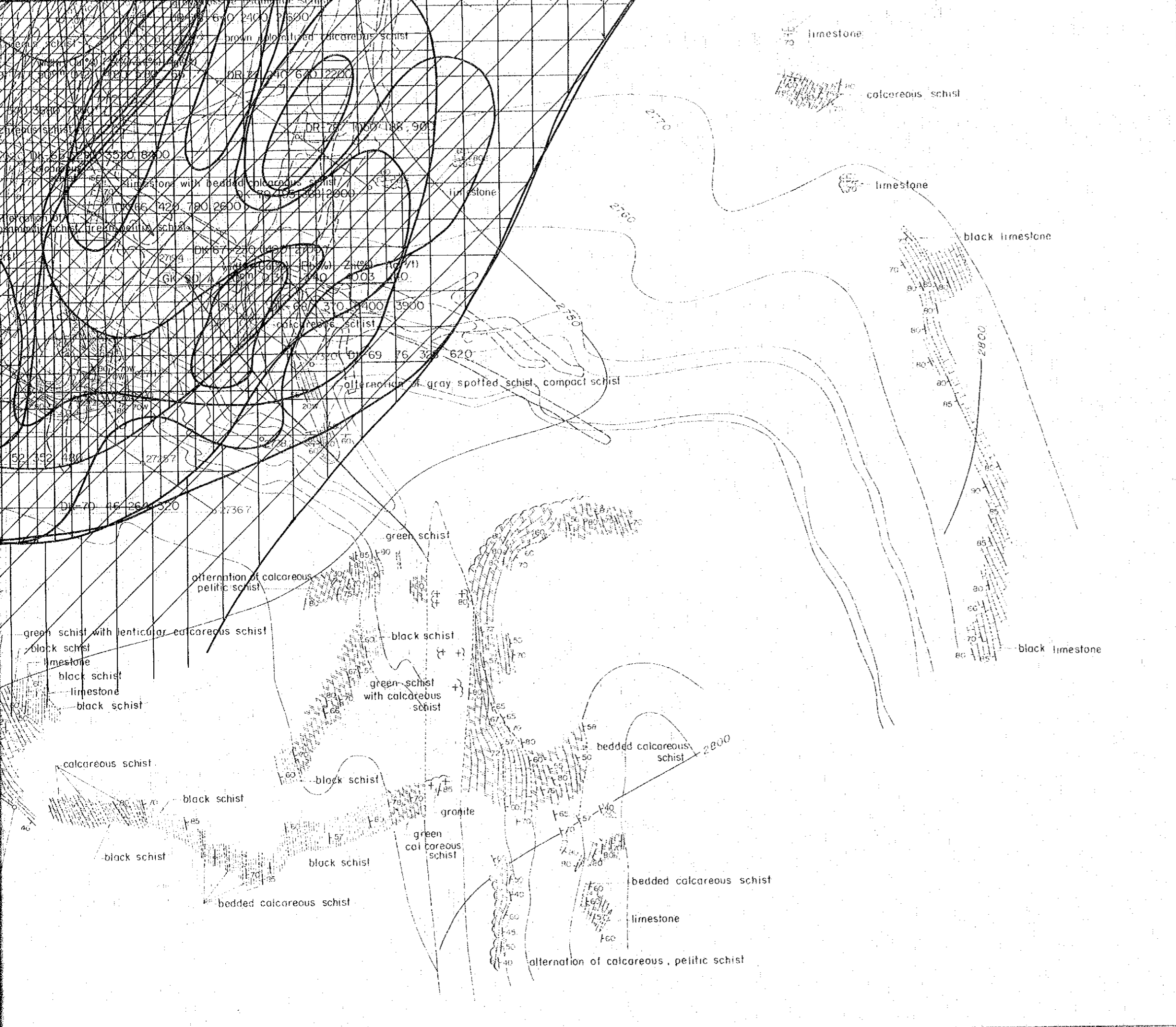
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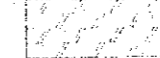

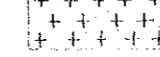
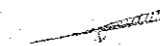

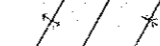
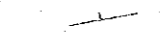

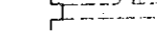



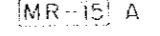
LEGEND

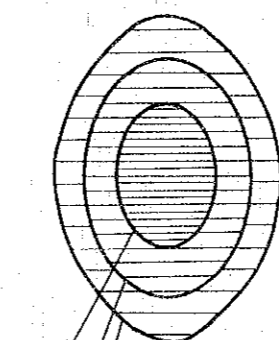
- pelitic schist
- psammitic schist
- calcareous schist
- limestone
- granite



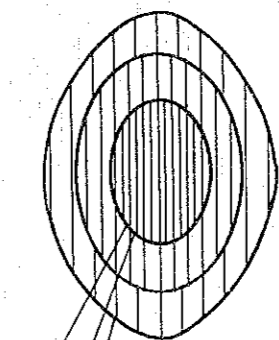


LEGEND

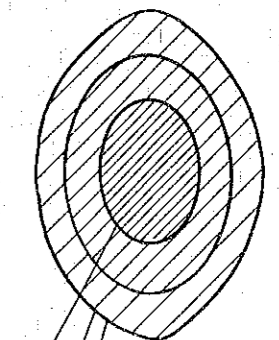
-  pelitic schist
-  psammitic schist
-  calcareous schist
-  limestone
-  granite
-  vein
-  fault
-  anticlinal axis / synclinal axis
-  bedding plane
-  schistosity
-  tunnel
-  2733.2 surveyed point & elevation
-  DR-95 53 84 380
-  soil sample No Cu (ppm) Pb (ppm) Zn (ppm)
-  MR-15 A location of rock sample for chemical analysis



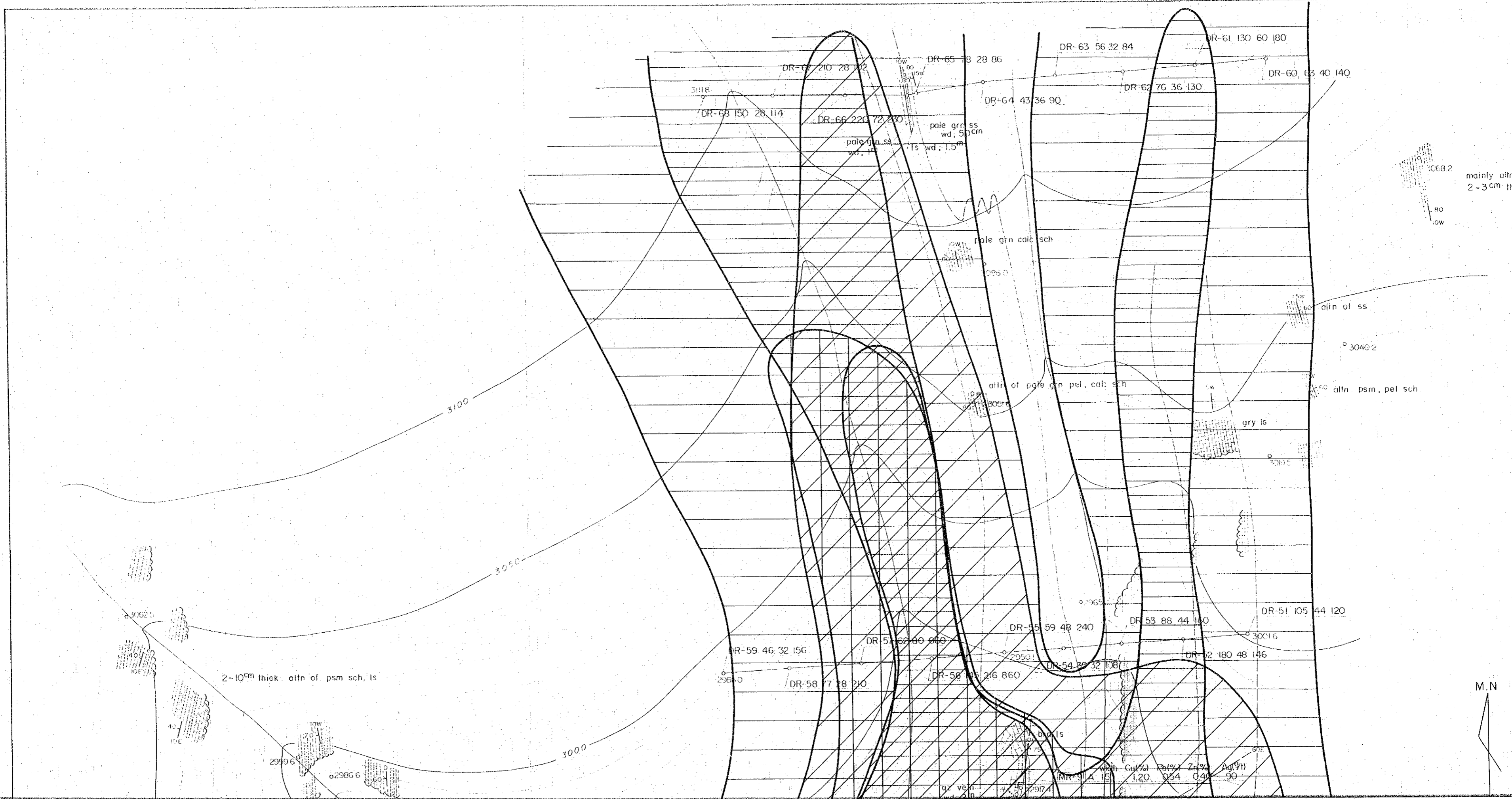
$Cu \geq 338 \text{ ppm}$
 $338 \text{ ppm} > Cu \geq 129 \text{ ppm}$
 $129 \text{ ppm} > Cu \geq 49 \text{ ppm}$



$Pb \geq 1439 \text{ ppm}$
 $1439 \text{ ppm} > Pb \geq 331 \text{ ppm}$
 $331 \text{ ppm} > Pb \geq 76 \text{ ppm}$



$Zn \geq 3076 \text{ ppm}$
 $3076 \text{ ppm} > Zn \geq 838 \text{ ppm}$
 $838 \text{ ppm} > Zn \geq 229 \text{ ppm}$

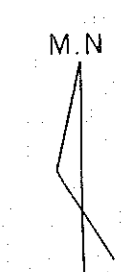


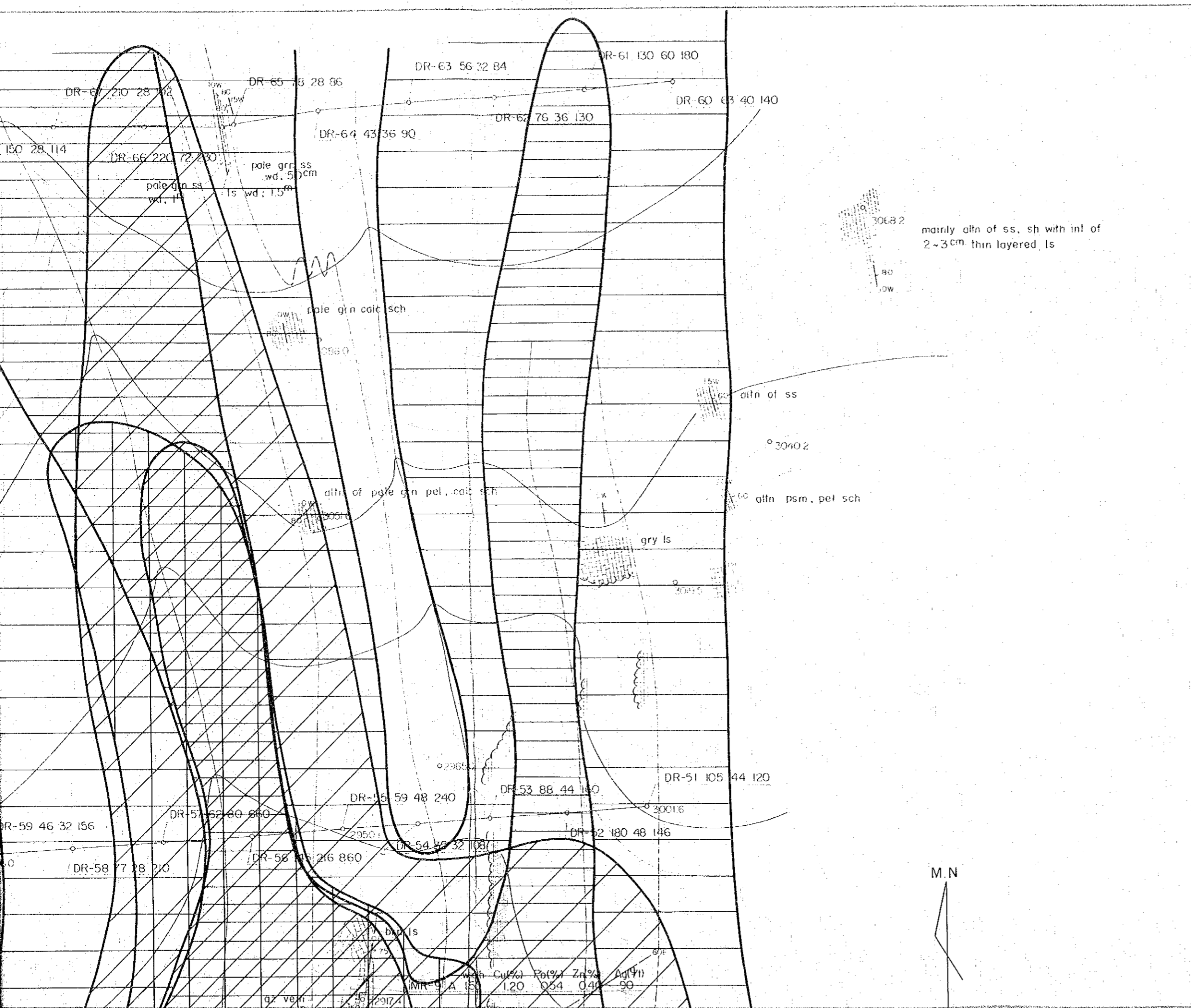
3068.2
 mainly altn
 2-3 cm thk
 no
 low

altn of ss
 3040.2
 altn psm, pel sch

2-10cm thick altn of psm sch, ls

Core No.	Alt. (m)	Depth (m)	Core Length (m)	Notes
DR-51	105	44	120	
DR-52	180	48	146	
DR-53	88	44	100	
DR-54	35	32	108	
DR-55	59	48	240	
DR-56	62	60	160	
DR-57	115	216	860	
DR-58	77	38	210	
DR-59	46	32	156	
DR-60	63	40	140	
DR-61	130	60	180	
DR-62	76	36	130	
DR-63	56	32	84	
DR-64	43	36	90	
DR-65	79	28	86	
DR-66	220	72	230	
DR-67	130	28	114	
DR-68	130	28	114	





PL 14-2

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GEOLOGICAL SURVEY
 OF
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 (PHASE 1)

**GEOCHEMICAL MAP FOR Cu, Pb AND Zn
 IN ERDOUZ SOUTH**

JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 JANUARY 1984
 Prepared by MINDECO

Scale 1 : 1,000

pale grn calc sch

altm of ss

3040.2

altm psm, pel sch

gry ls

3100

altm of pale grn pel. cal. sch

3050

2965

DR-51 105 44 120

2-10cm thick altm of psm sch. ls

DR-59 46 32 156

DR-57 62 60 240

DR-56 59 48 240

DR-53 88 44 150

DR-52 180 48 146

3000

DR-58 77 28 210

DR-55 101 216 860

DR-54 75 32 108

2962.5

2989.6

2986.6

2925.0

2960

qz vein
wd: 2.5m

width Cu(%) Pb(%) Zn(%) Ag(%)
1.20 0.54 0.40 90

pale grn 50cm thick
bdd calc sch

DR-52 100 300 1650

qz vein
wd: 50cm

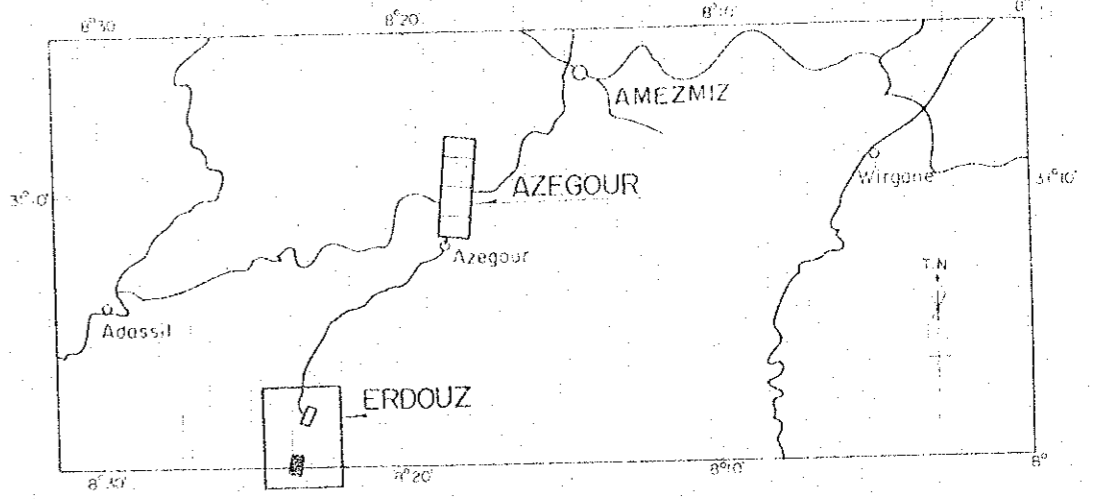
width Cu(%) Pb(%) Zn(%) Ag(%)
0.67 0.55 0.55 90

M.N



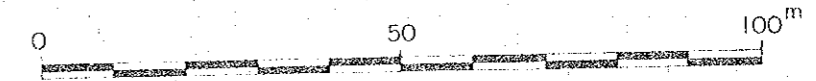


IN ERDOUZ SOUTH



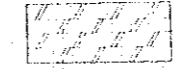

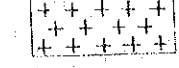


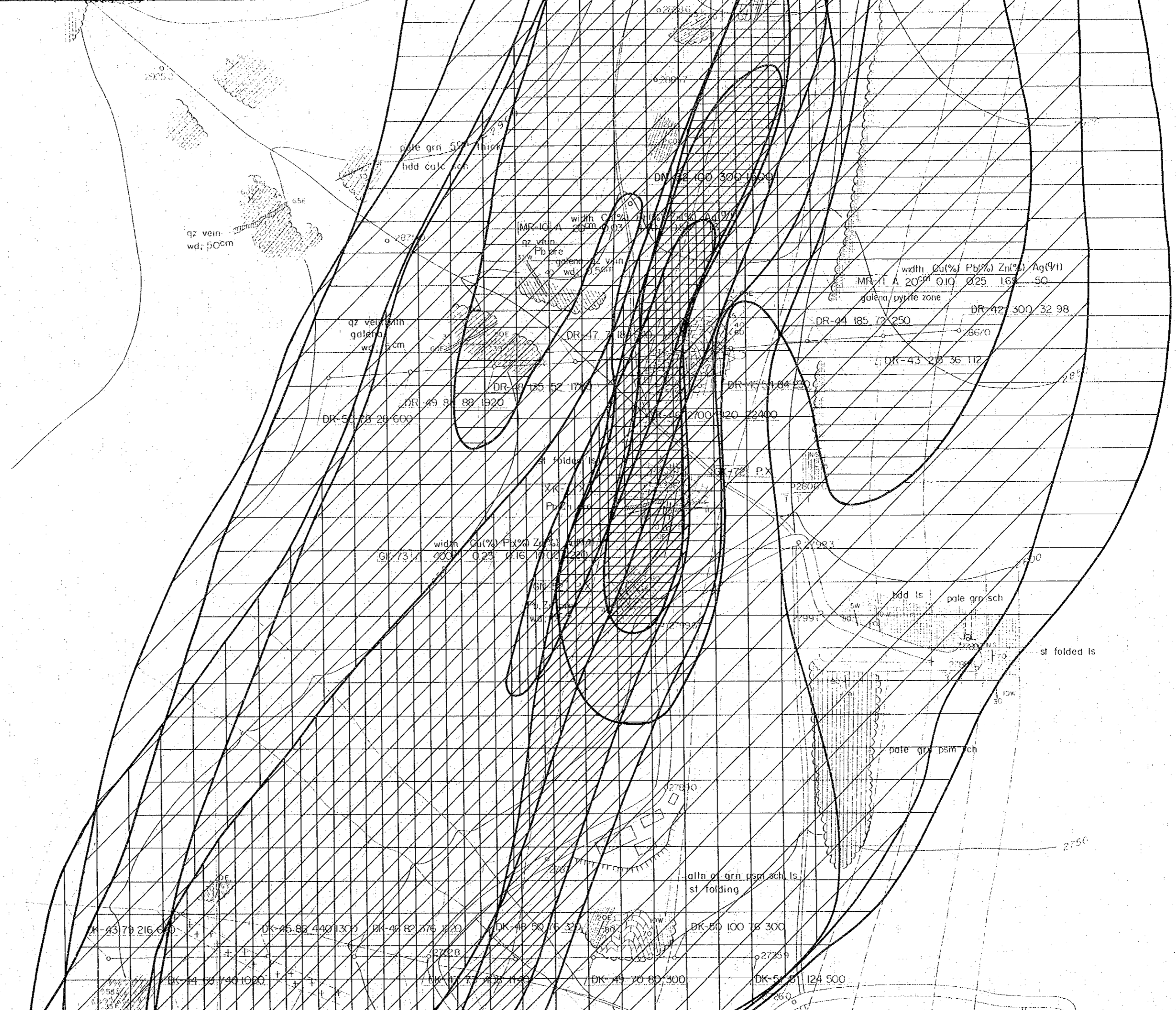
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 METAL MINING AGENCY OF JAPAN
 JANUARY 1984
 Prepared by MINDECO

Scale 1 : 1,000



LEGEND

-  pelitic schist
-  psammic schist
-  calcareous schist
-  limestone
-  granite



pale grn 50m
bdd calc sch

qz vein
wd: 50cm

qz vein
galena
wd: 5cm

DR-51 78 25 600

DR-49 84 88 1920

DR-47 71 18 2500

DR-48 135 52 1740

st folded ls

width Cu(%) Pb(%) Zn(%) Ag(%)
GR-73 900 0.23 0.16 1700 220

DR-42 160 500 1500

width Cu(%) Pb(%) Zn(%) Ag(%)
MR-1 A 20cm 0.10 0.25 165 50

qz vein
Pb ore
galena
wd: 0.5m

width Cu(%) Pb(%) Zn(%) Ag(%)
MR-1 A 20cm 0.10 0.25 165 50

galena, pyrite zone

DR-44 185 72 250

DR-42 300 32 98

DR-43 210 36 112

DR-45 51 64 130

DR-46 2700 120 22400

DR-72 PX

bdd ls
pale grn sch

st folded ls

pale grn psch sch

alln of grn psch sch ls
st folding

DR-43 79 216 600

DR-45 82 440 1300

DR-46 82 376 1220

DR-48 50 15 320

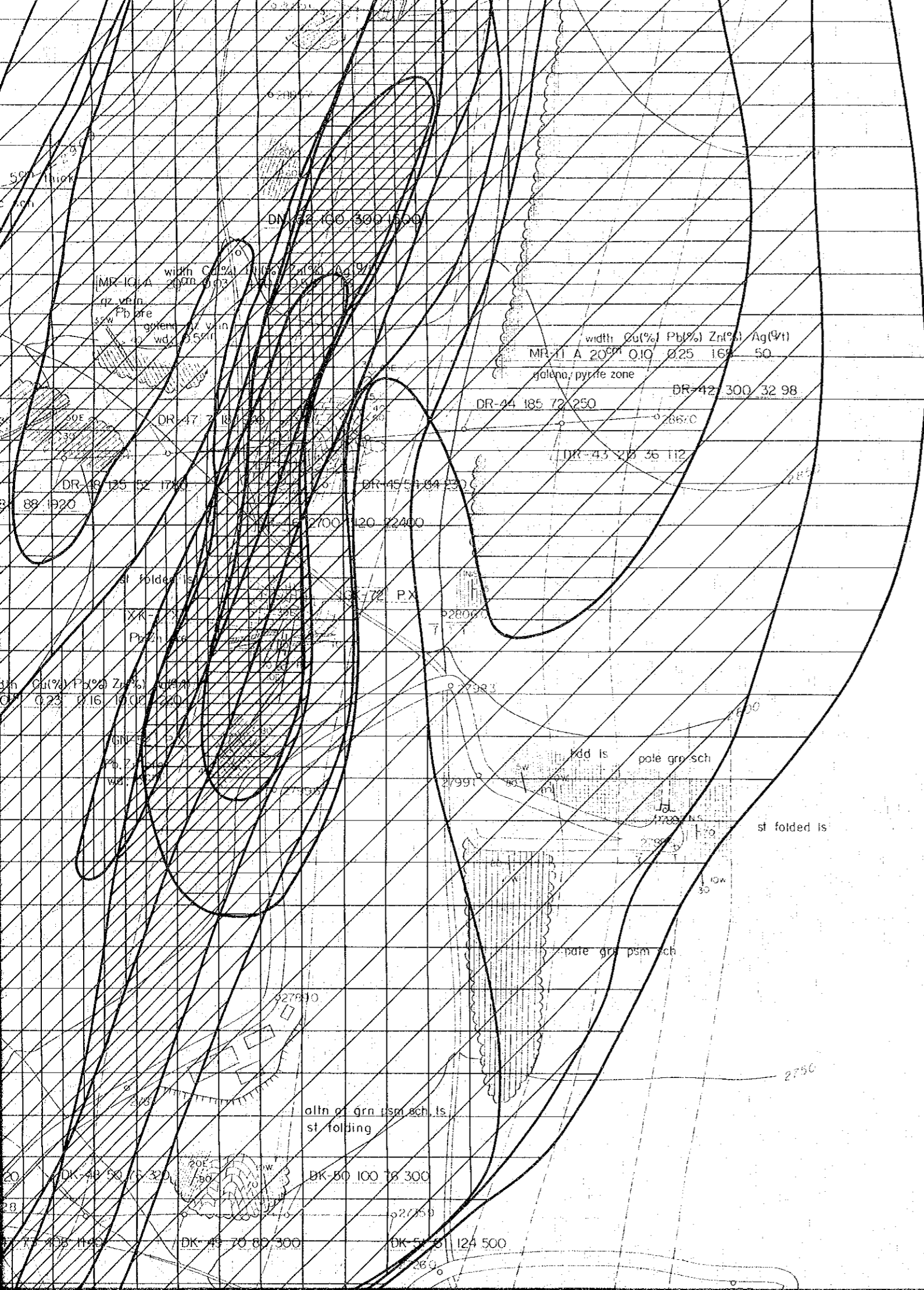
DR-50 100 36 300

DR-44 56 740 1000

DR-47 71 18 2500

DR-49 70 80 300

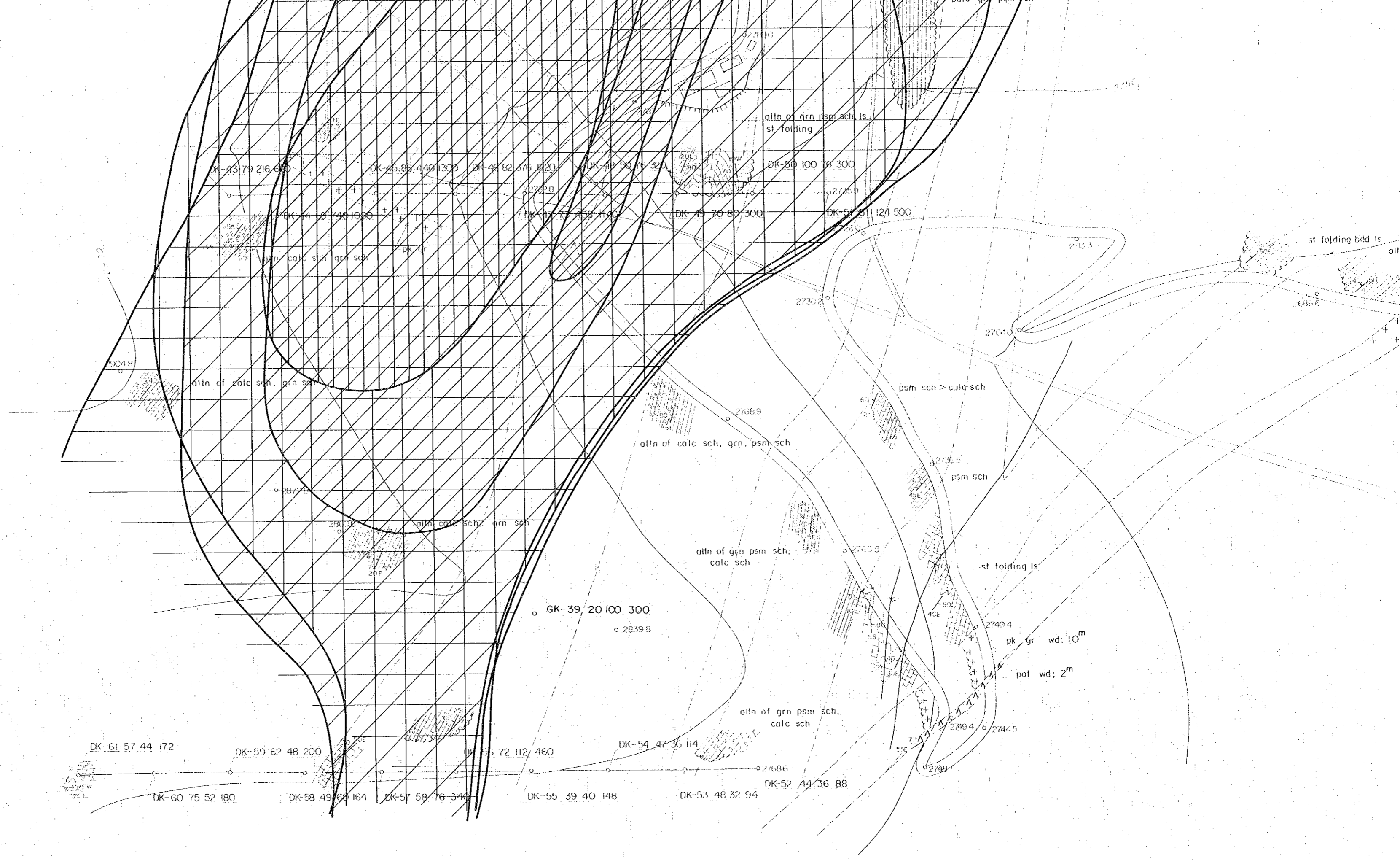
DR-51 78 124 500



- pelitic schist
- psammitic schist
- calcareous schist
- limestone
- granite
- porphyrite
- vein
- fault
- anticlinal axis / synclinal axis
- bedding plane
- schistosity
- tunnel
- surveyed point & elevation
- soil sample Cu Pb Zn
No (ppm) (ppm) (ppm)
- location of rock sample for chemical analysis
- location of rock sample for polished section
- location of rock sample for X-ray analysis

ABBREVIATION

- gr : granite
- ls : limestone
- pot : porphyrite
- qz : quartz
- sch : schist
- sh : shale
- ss : sandstone
- int : intercalation
- pel : pelitic
- psm : psammitic
- st : strongly
- wd : width
- brn : brown
- grn : green



DK-61 57 44 172

DK-59 62 48 200

DK-56 72 112 460

DK-54 47 36 114

DK-60 75 52 180

DK-58 49 64 164

DK-57 58 76 344

DK-55 39 40 148

DK-53 48 32 94

DK-52 44 36 88

GK-39 20 100 300

28398

altn of grn psm sch ls
st folding

DK-50 100 18 300

DK-51 51 124 500

altn of calc sch, grn sch

altn of calc sch, grn, psm sch

altn of grn psm sch,
calc sch

altn of grn psm sch,
calc sch

psm sch > calc sch

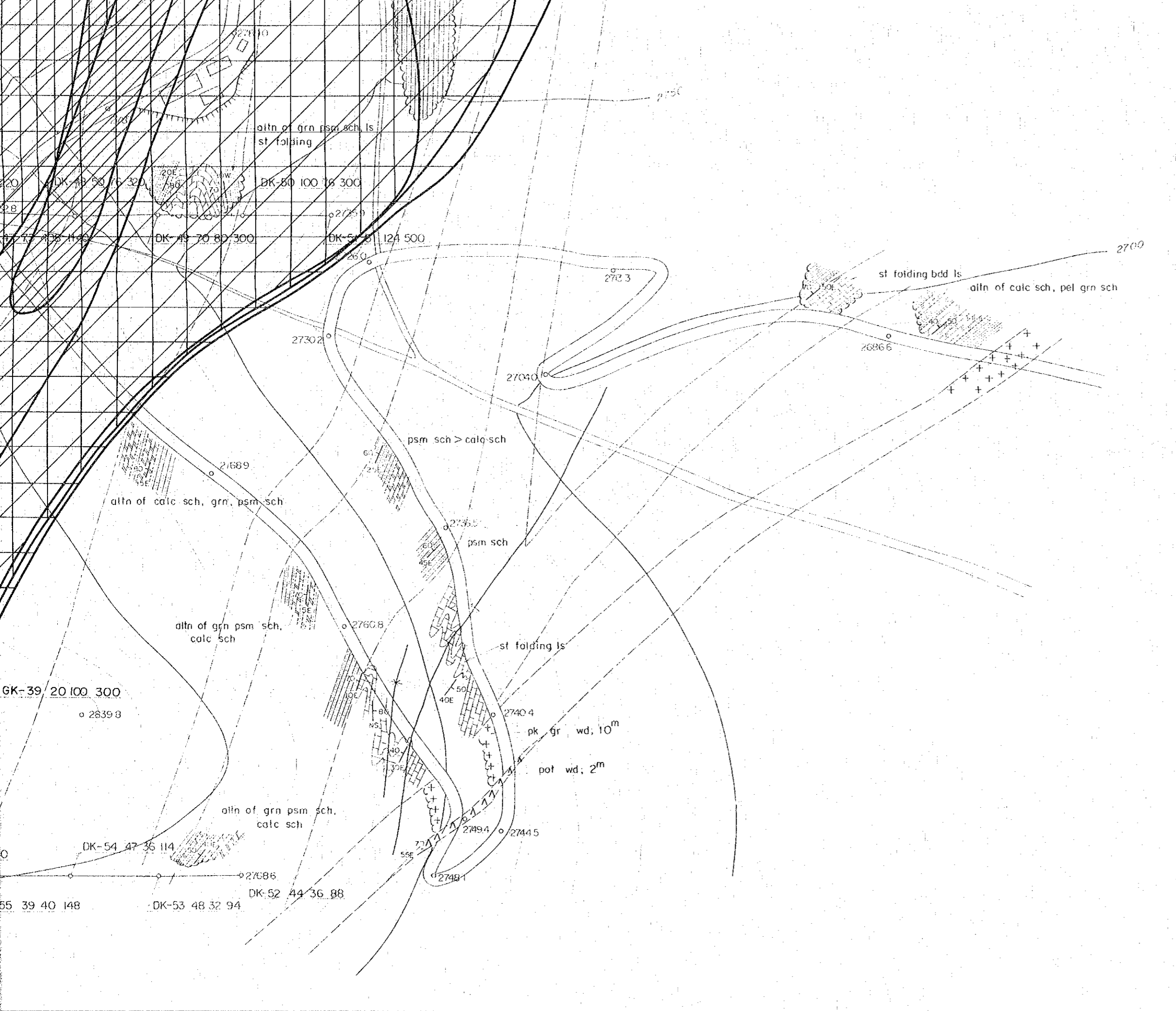
psm sch

st folding ls

pk gr wd: 10^m

pot wd: 2^m

st folding bdd ls



ABBREVIATION

gr	: granite	int	: intercalation
ls	: limestone	pel	: pelitic
pot	: porphyrite	psm	: psammitic
qz	: quartz	st	: strongly
sch	: schist	wd	: width
sh	: shale		
ss	: sandstone	brn	: brown
		grn	: green
altn	: alternation	gry	: gray
bdd	: bedded	pk	: pink
calc	: calcareous		

