



SOUK

1480

1580

1560

1540

1520

1500

1500

1520

1540

1560

400

600

800

1000

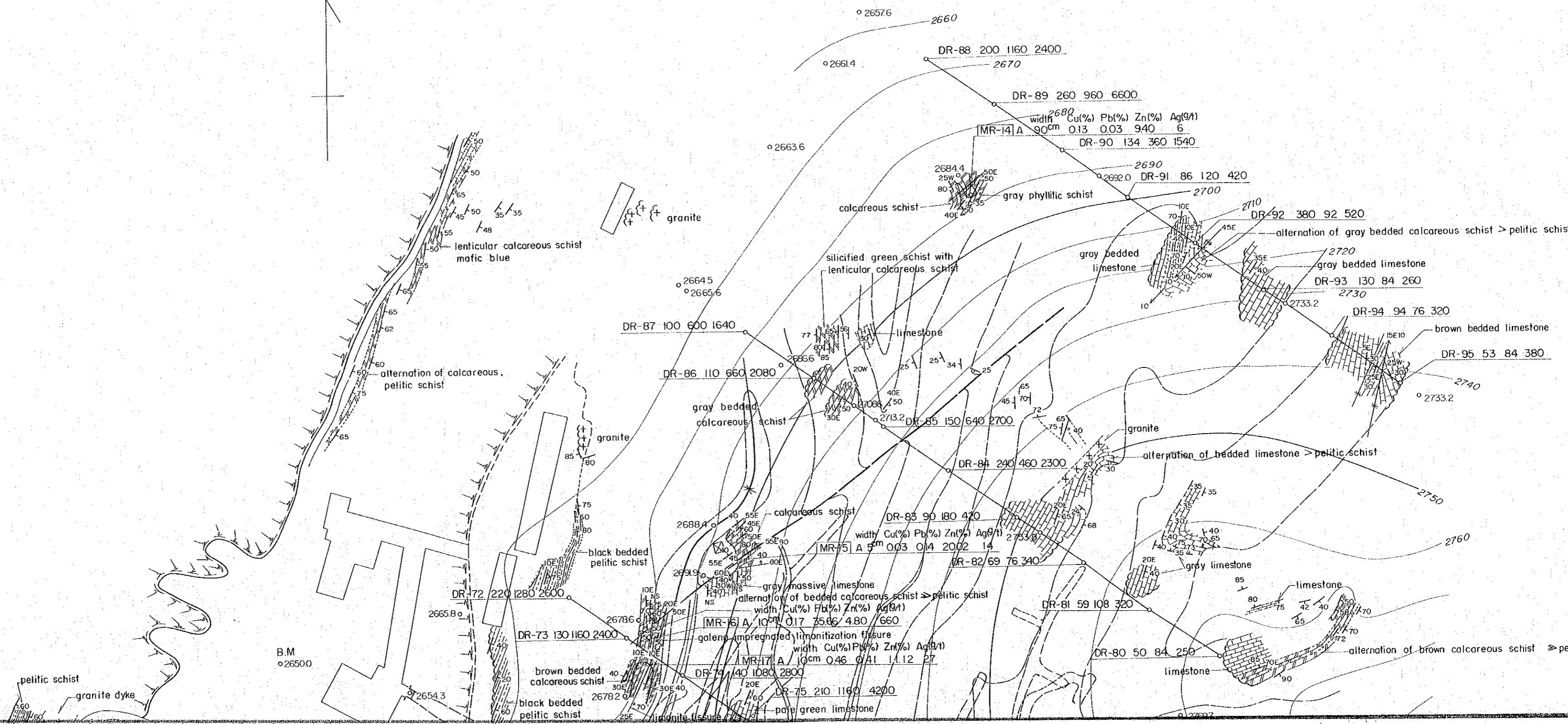
1200

1400

△ Sample analysed by B.R. P.M.



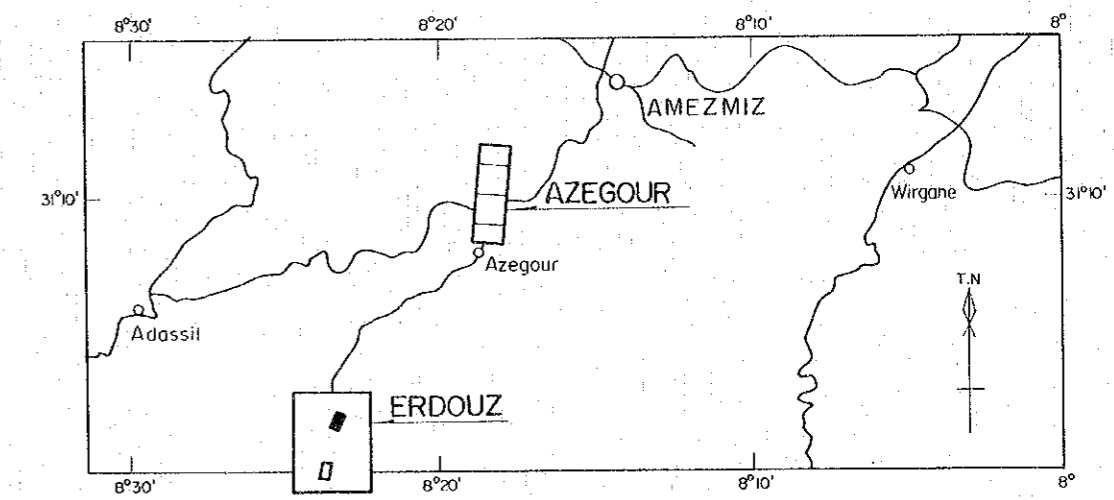
M.N



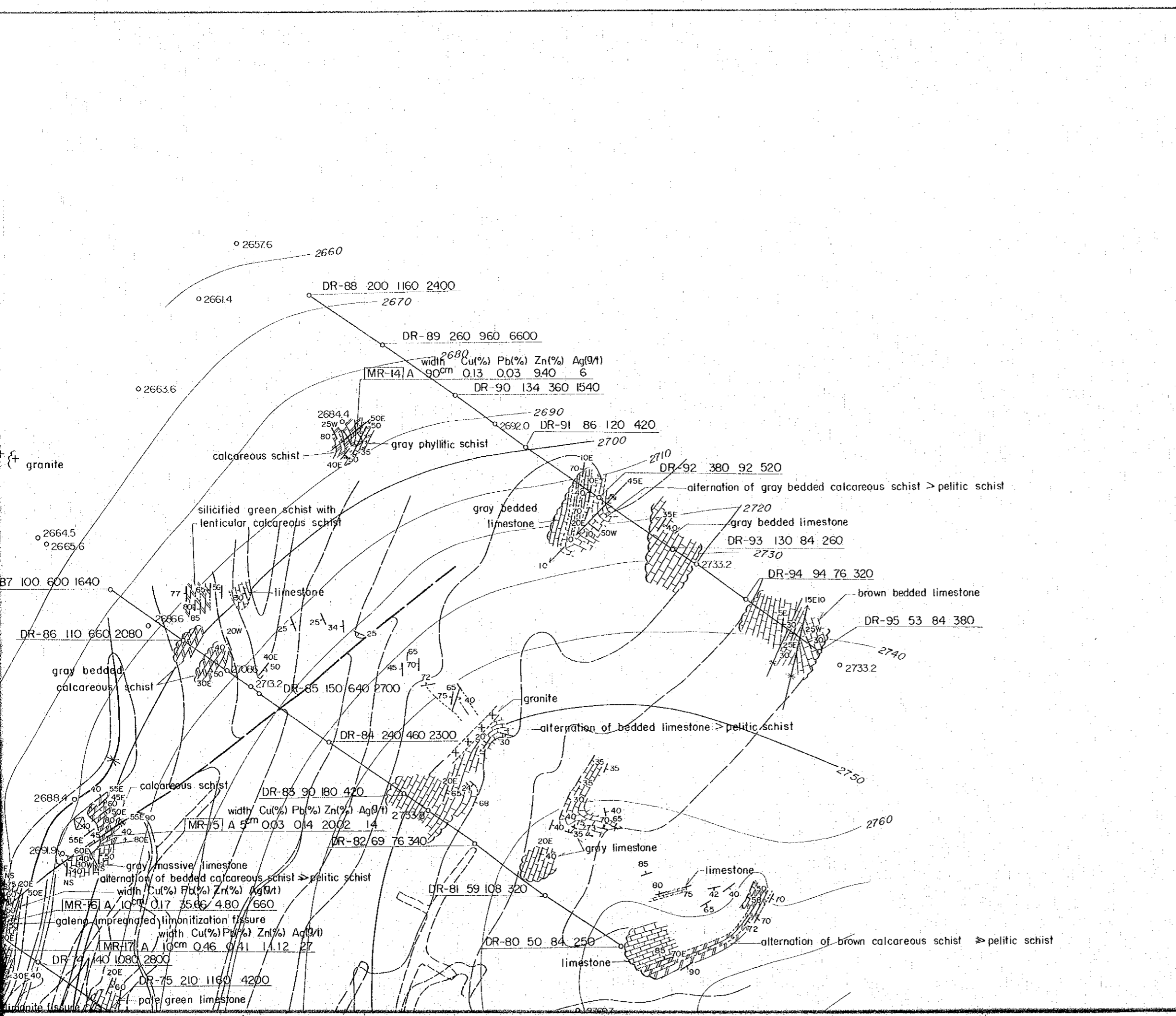
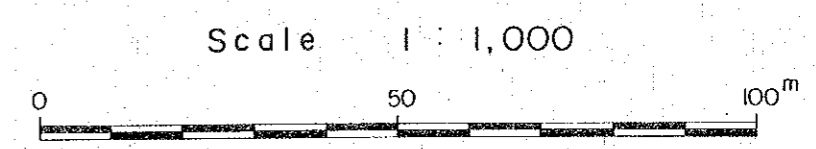
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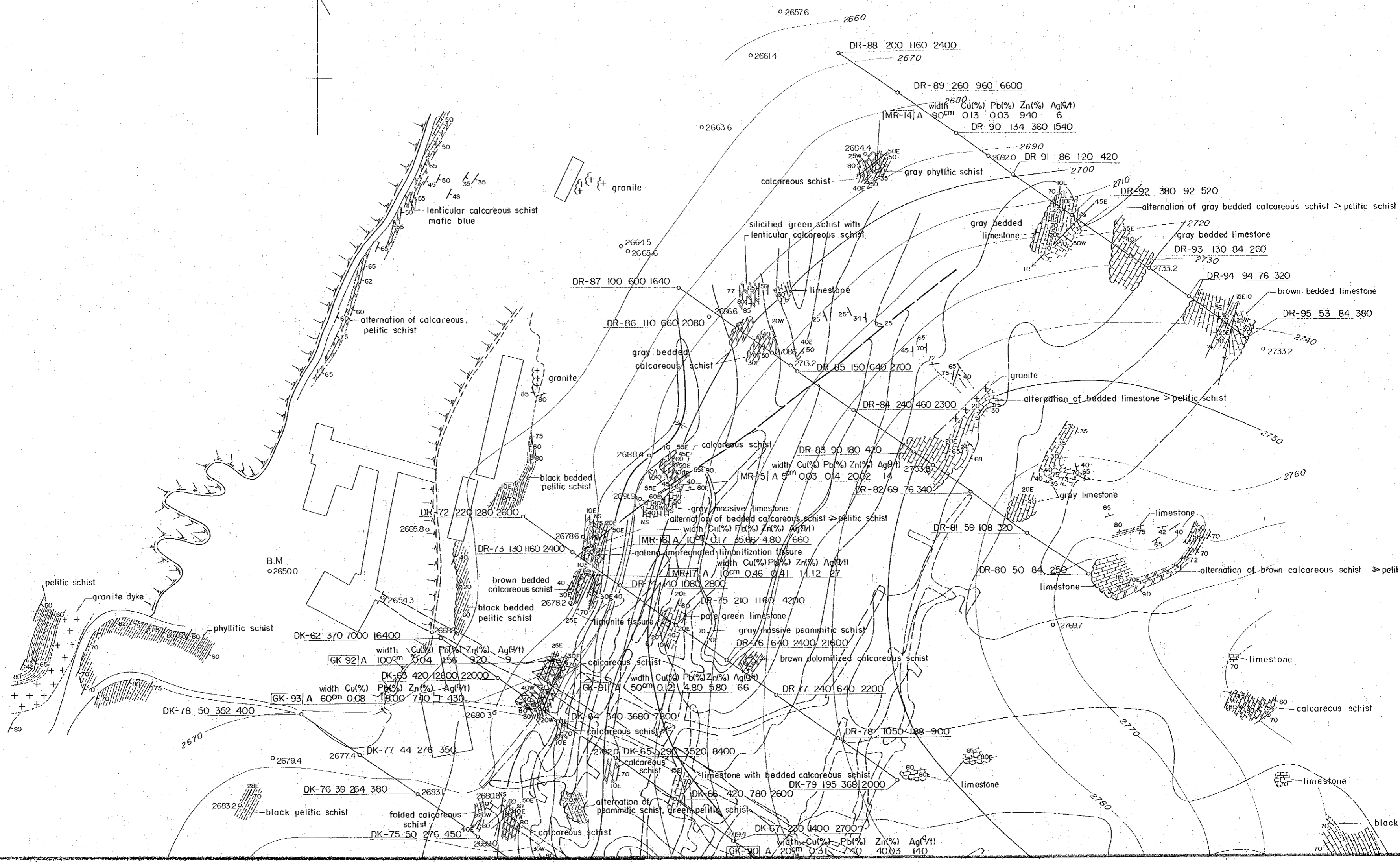
GEOLOGICAL SURVEY
OF
HAUT ATLAS OCCIDENTAL AREA, MOROCCO
(PHASE I)

GEOLOGICAL SKETCH OF
ERDOUZ NORTH

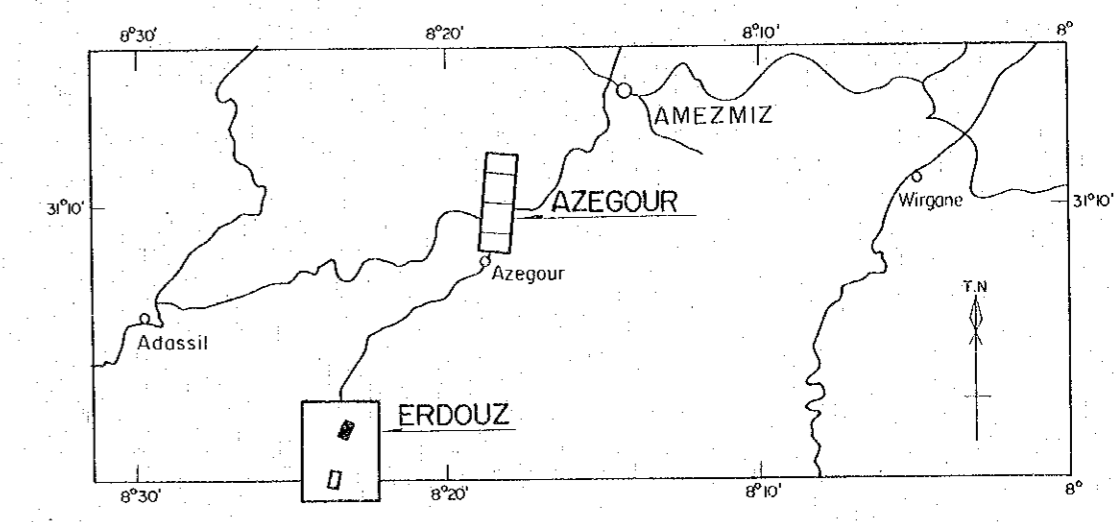


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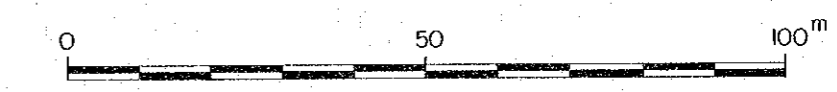


GEOLOGICAL SKETCH OF ERDOUZ NORTH



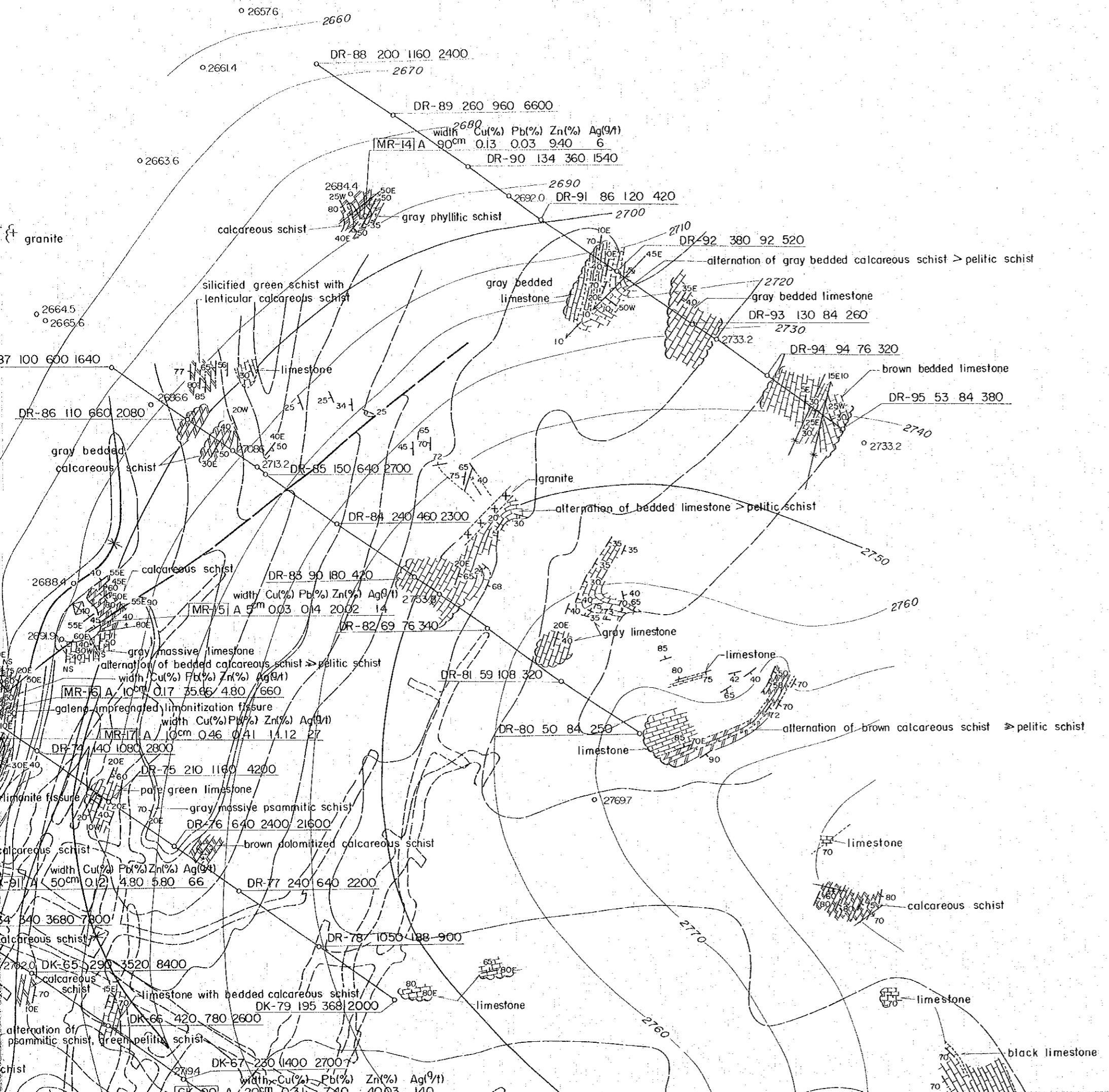
JAPAN INTERNATIONAL COOPERATION AGENCY
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Scale 1 : 1,000

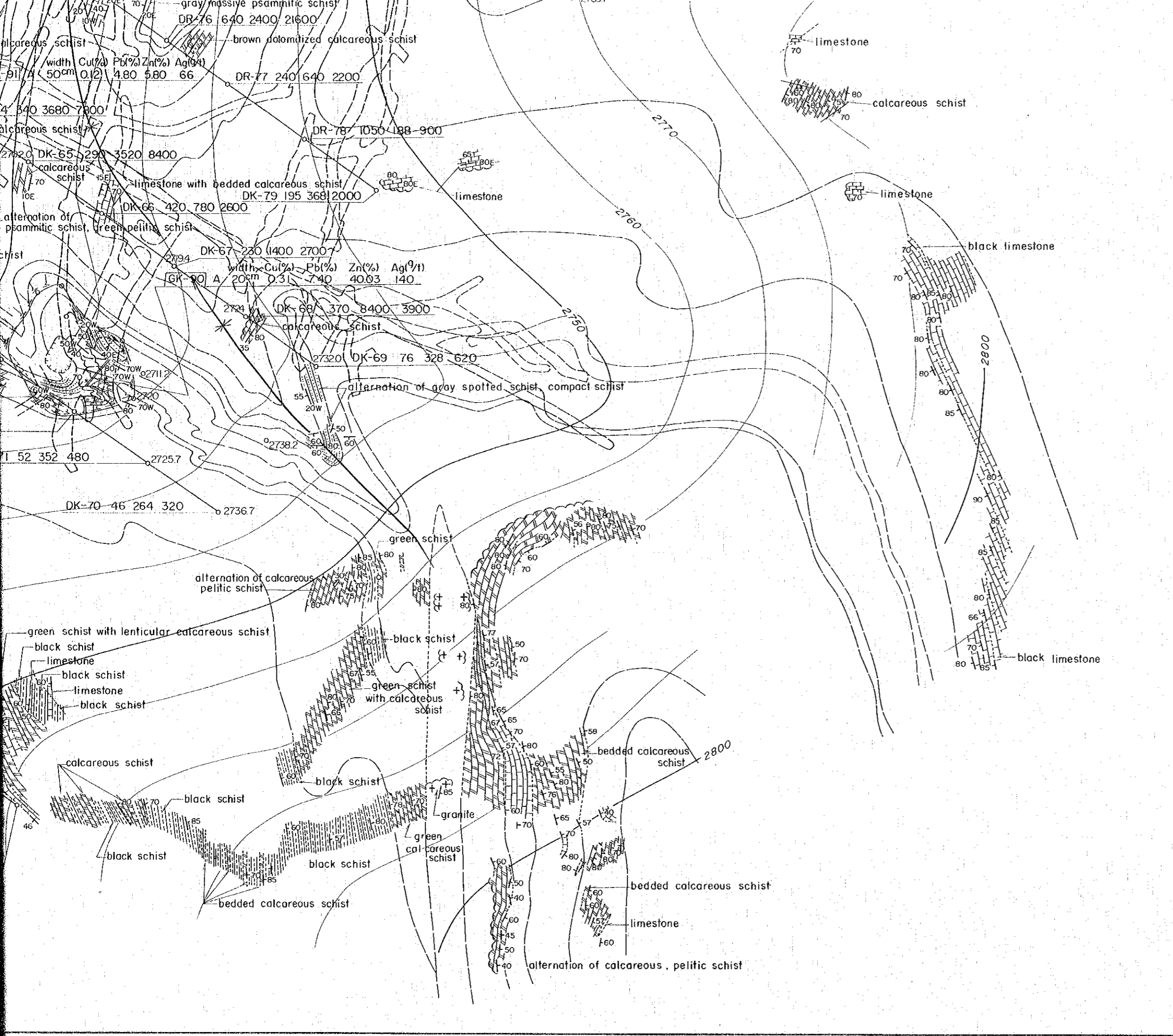


LEGEND

- pelitic schist
- psammitic schist
- calcareous schist
- limestone

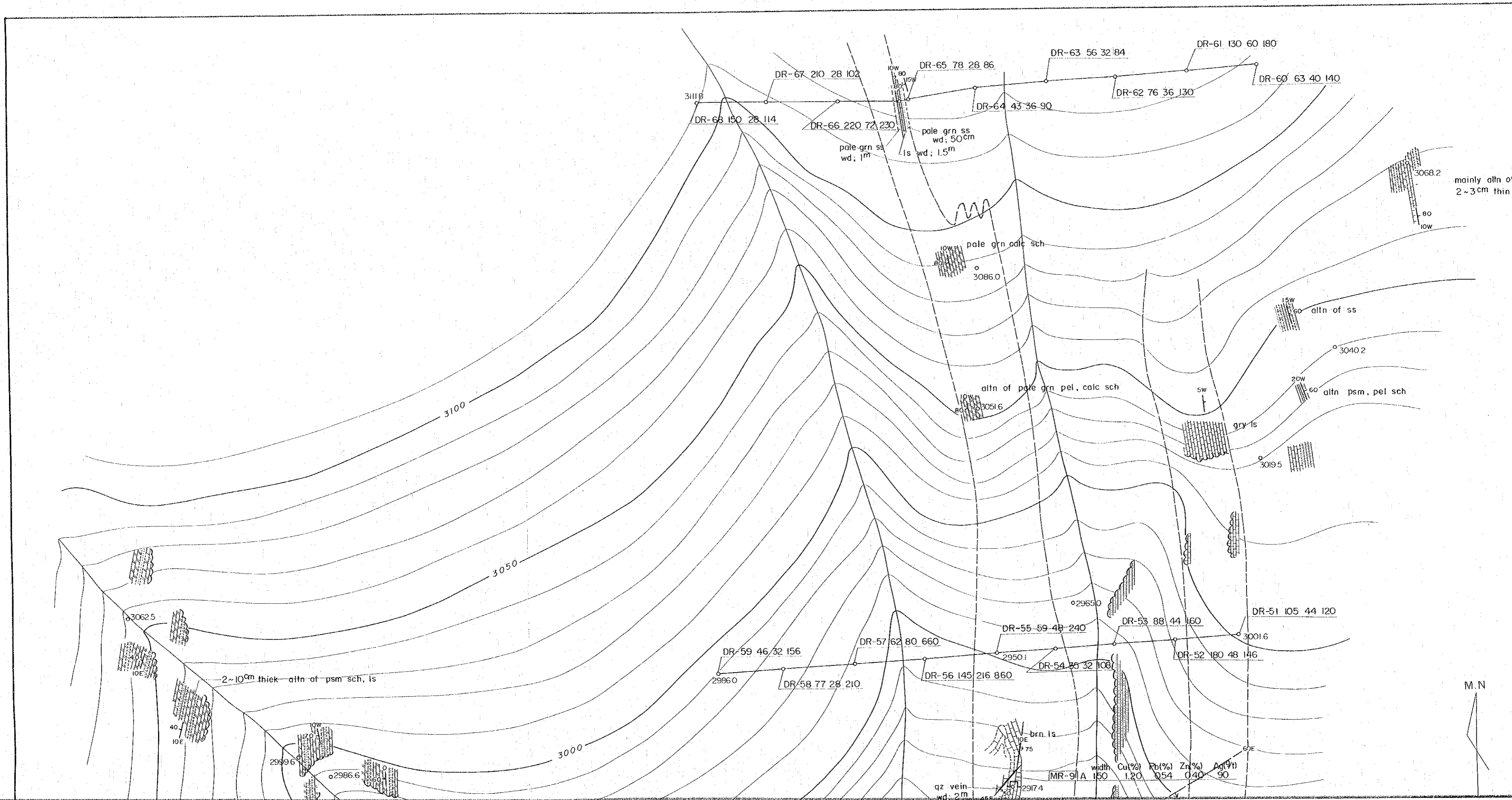


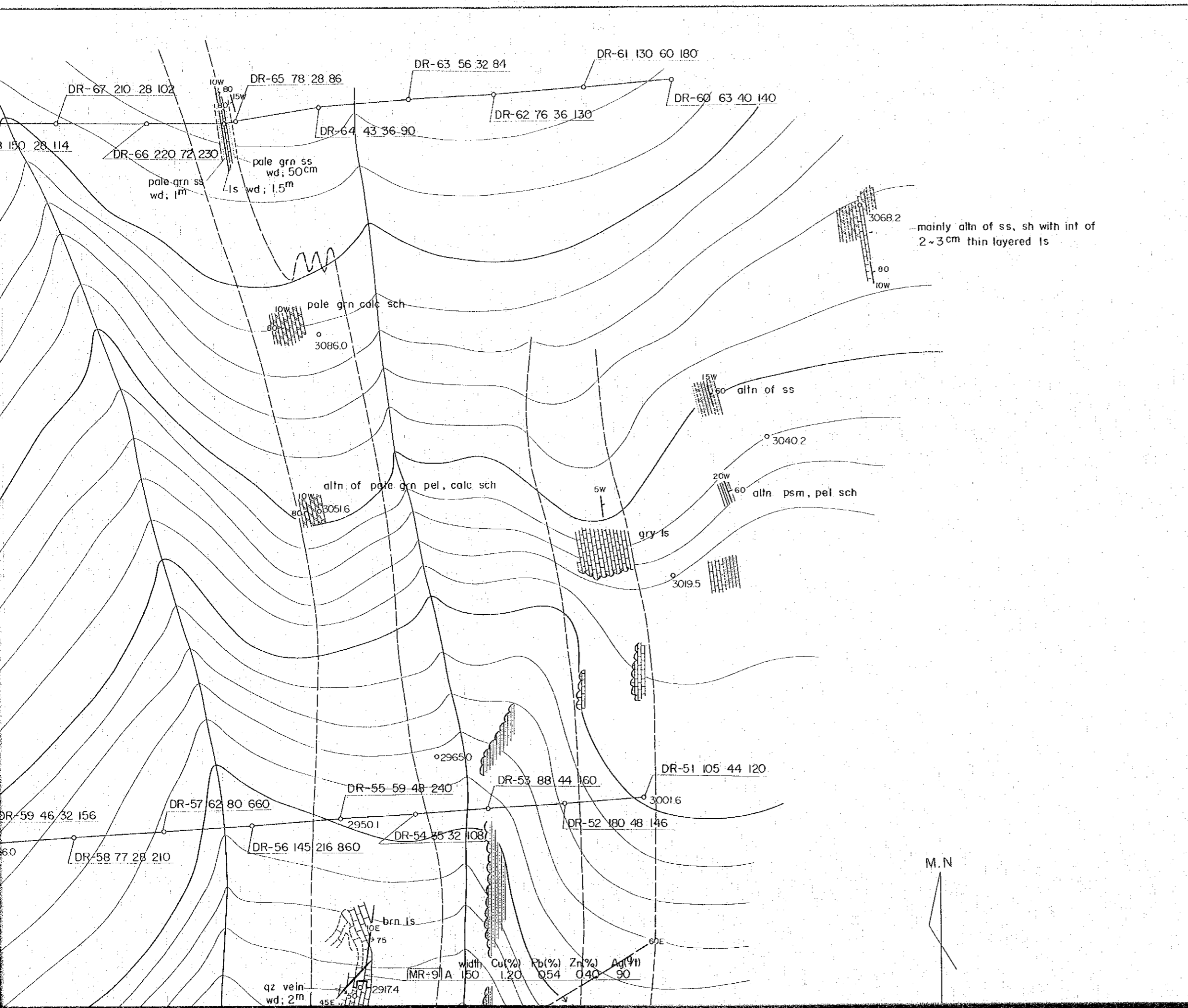




LEGEND

- pelitic schist
- psammitic schist
- calcareous schist
- limestone
- granite
- vein
- fault
- anticlinal axis / synclinal axis
- bedding plane
- schistosity
- tunnel
- 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





PL. 13-2

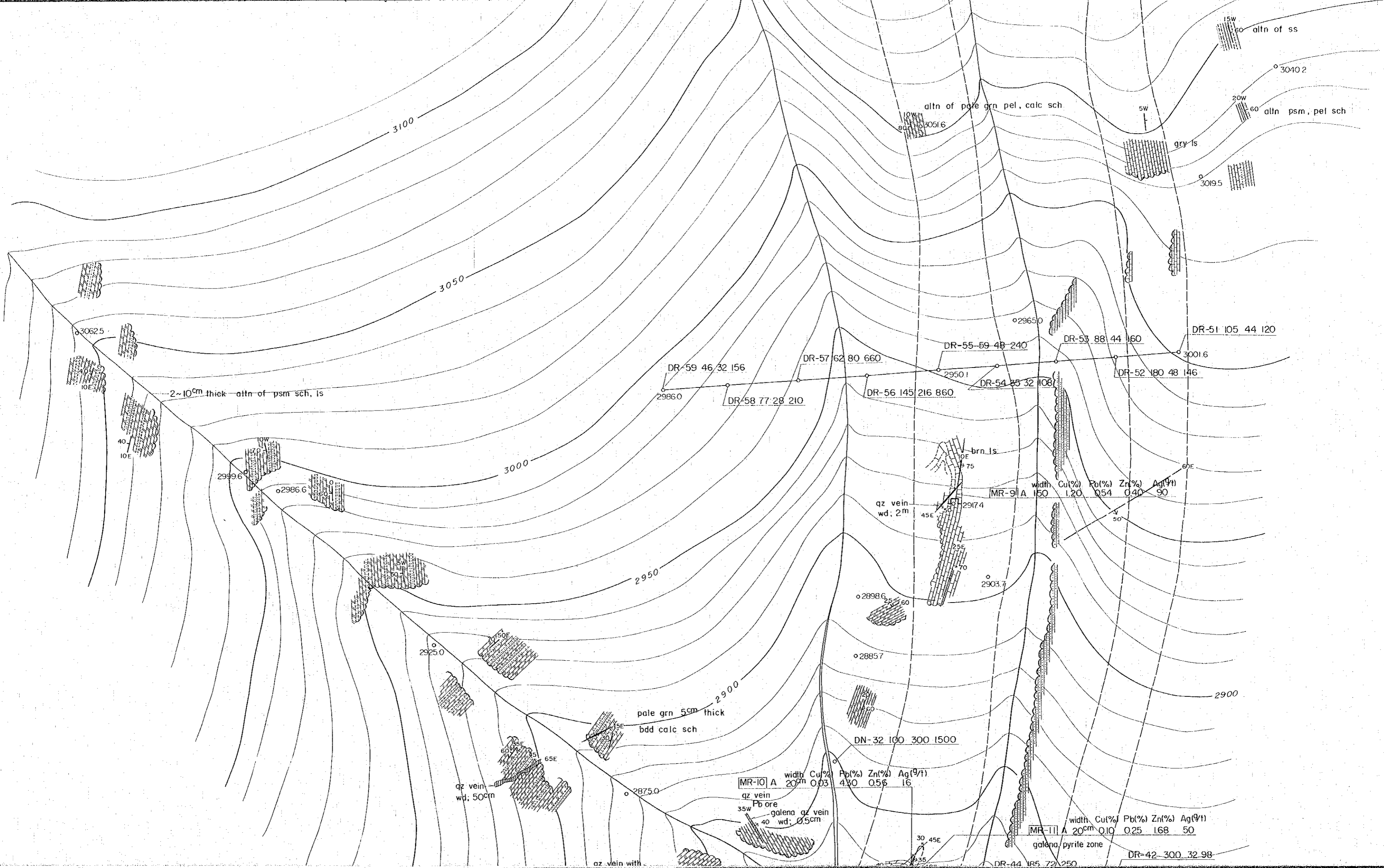
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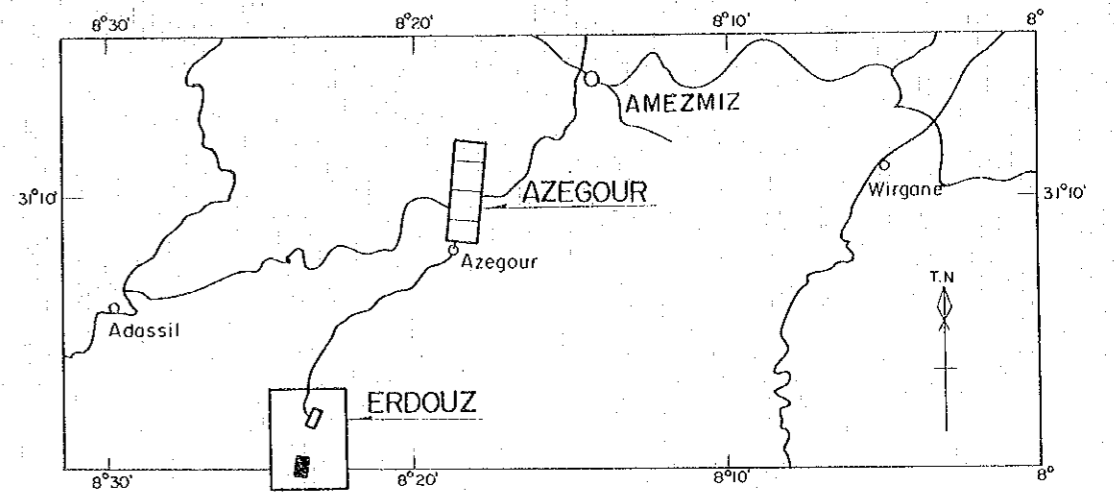
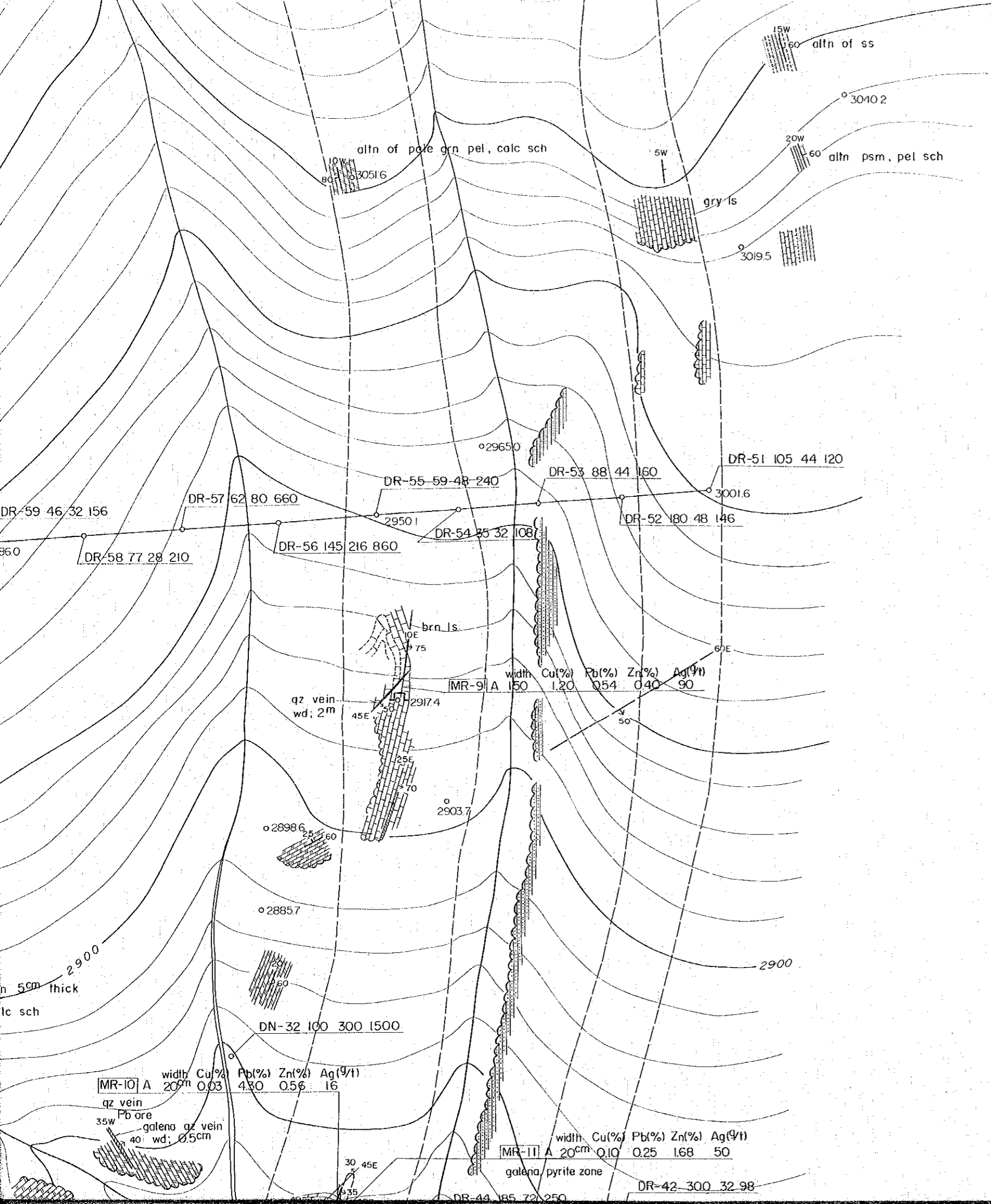
GEOLOGICAL SURVEY
OF
HAUT ATLAS OCCIDENTAL AREA, MOROCCO
(PHASE I)

GEOLOGICAL SKETCH OF ERDOUZ SOUTH

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
JANUARY 1984
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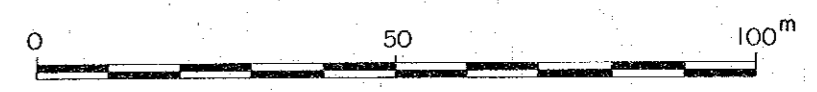
Scale 1 : 1,000





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Scale 1 : 1,000



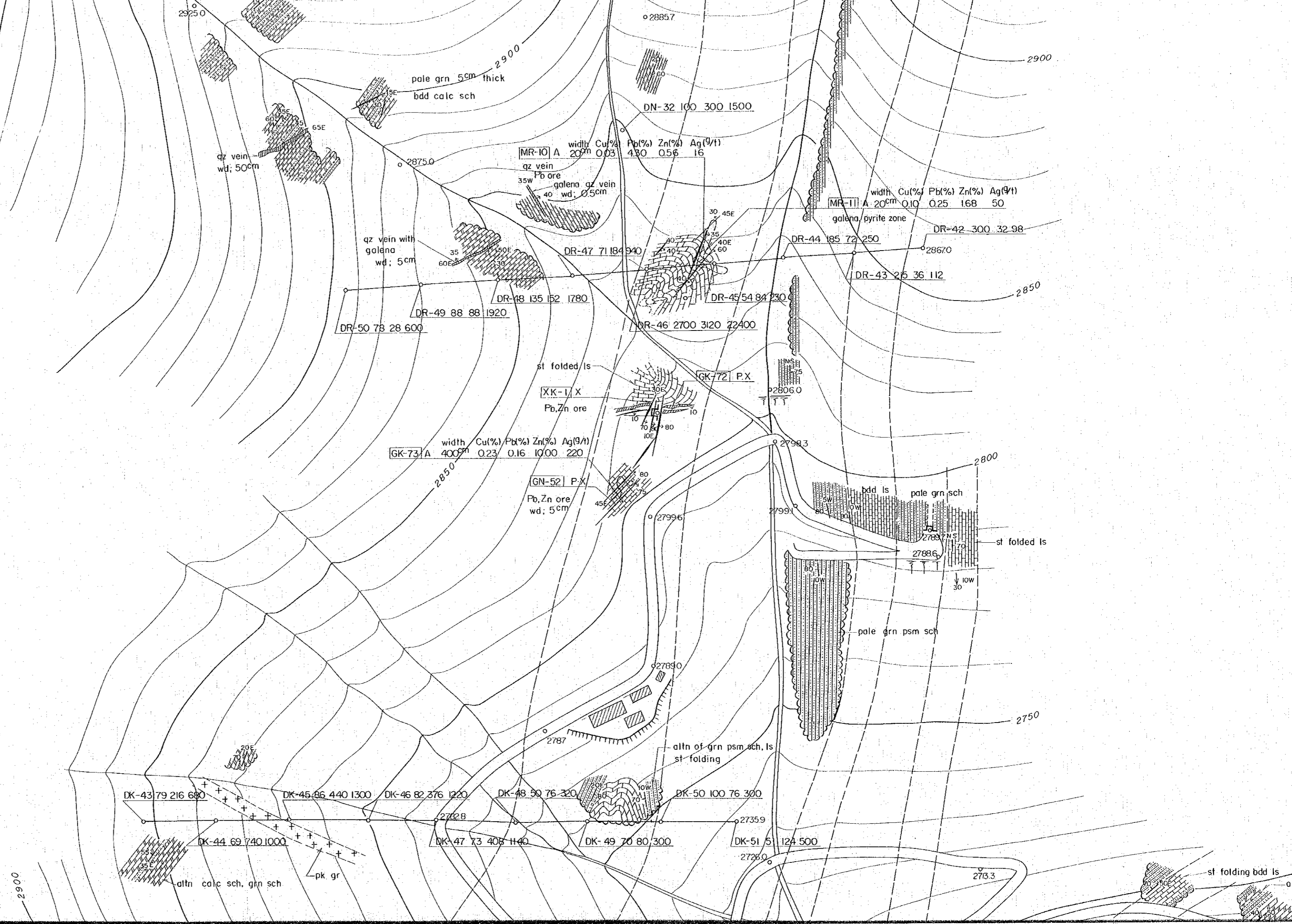
LEGEND

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

MR-10 A width 20cm Cu% 0.03 Pb% 4.30 Zn% 0.56 Ag(9/t) 16
 qz vein
 35w Pb ore
 galena qz vein
 40 wd: 0.5cm

MR-11 A width 20cm Cu% 0.10 Pb% 0.25 Zn% 1.68 Ag(9/t) 50
 galena, pyrite zone

MR-9 A width 150 Cu% 1.20 Pb% 0.54 Zn% 0.40 Ag(9/t) 90



MR-10 A

width	Cu(%)	Pb(%)	Zn(%)	Ag(9/t)
20cm	0.03	4.30	0.56	16

MR-11 A

width	Cu(%)	Pb(%)	Zn(%)	Ag(9/t)
20cm	0.10	0.25	1.68	50

GK-73 A

width	Cu(%)	Pb(%)	Zn(%)	Ag(9/t)
40cm	0.23	0.16	10.00	220

DK-43

79	216	680
----	-----	-----

DK-45

86	440	1300
----	-----	------

DK-46

82	376	1220
----	-----	------

DK-48

50	76	320
----	----	-----

DK-50

100	76	300
-----	----	-----

DK-44

69	740	1000
----	-----	------

DK-47

73	408	1140
----	-----	------

DK-49

70	80	300
----	----	-----

DK-51

5	124	500
---	-----	-----

qz vein with galena
wd: 5cm

qz vein
35w Pb ore
galena qz vein
40 wd: 0.5cm

galena pyrite zone

st folded ls

XK-1 X
Pb, Zn ore

GN-52 P X
Pb, Zn ore
wd: 5cm

bdd ls
pale grn sch

st folded ls

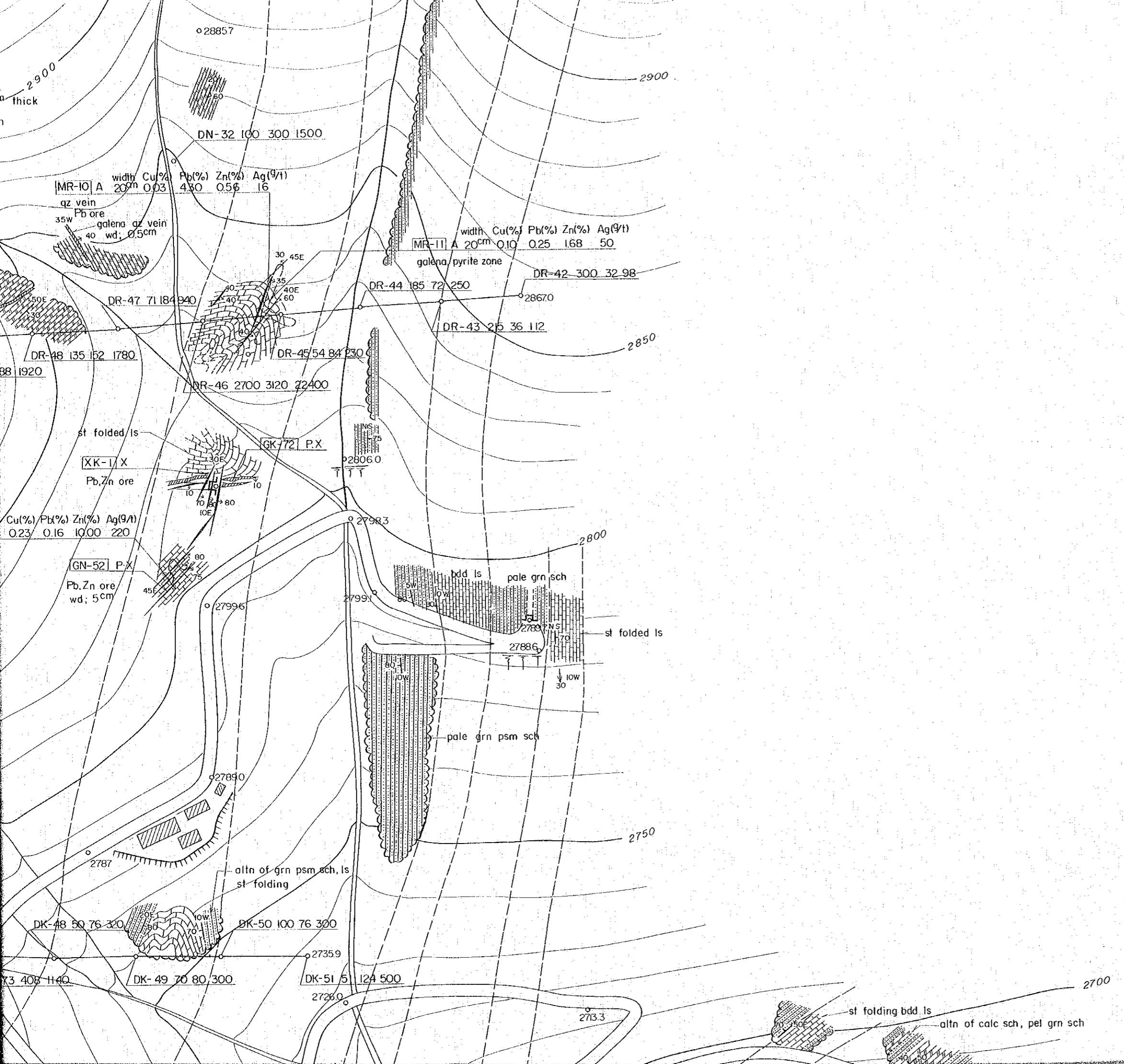
pale grn psm sch

altn of grn psm sch, ls
st folding

altn calc sch, grn sch

pk gr

st folding bdd ls



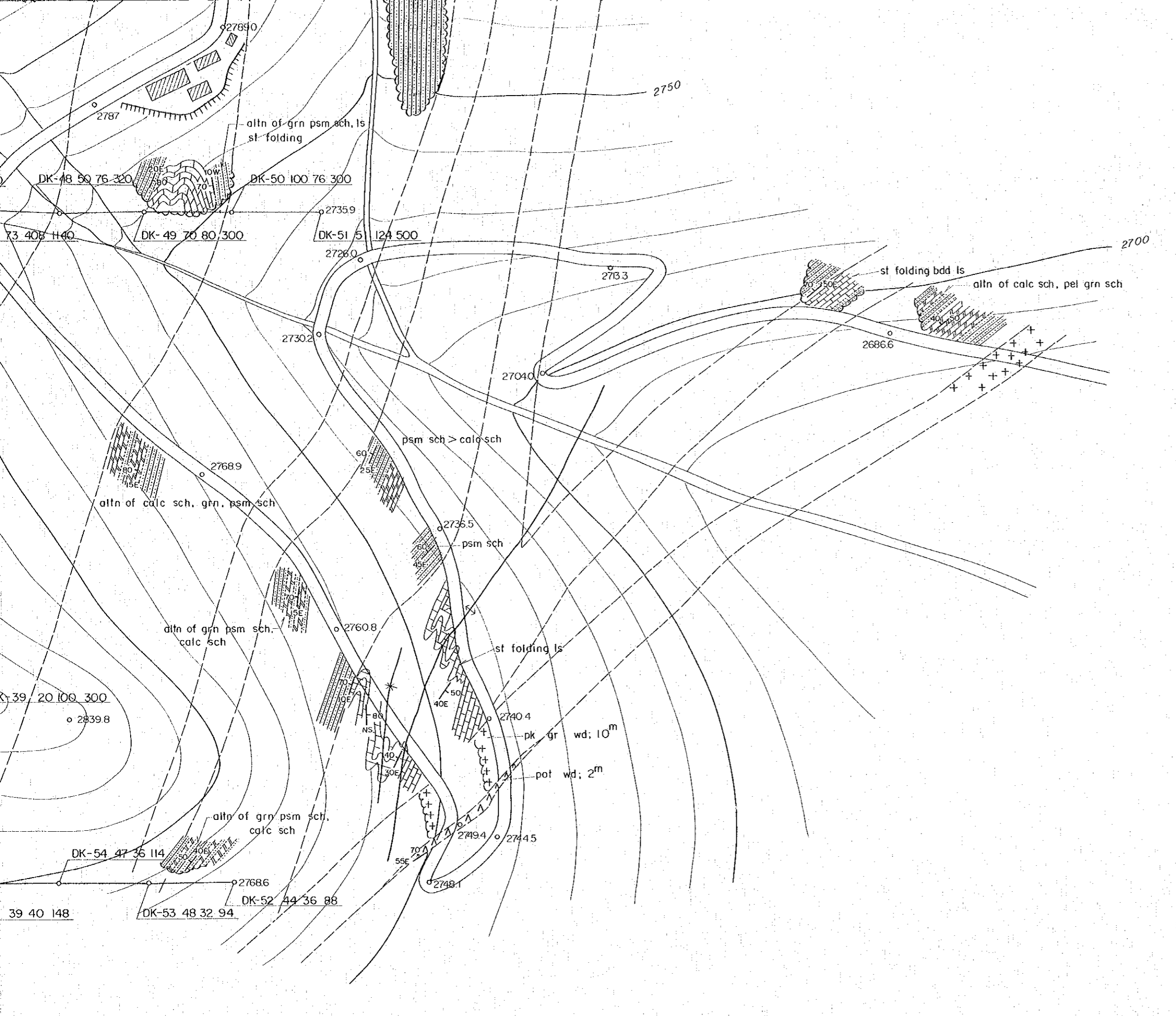
- pelitic schist
- psammic schist
- calcareous schist
- limestone
- granite
- porphyrite

- vein
- fault
- anticlinal axis / synclinal axis
- bedding plane
- schistosity
- tunnel

- o 2686.6 surveyed point & elevation
- o DR-42 300 32 98
soil sample Cu Pb Zn
No (ppm) (ppm) (ppm)
- MR-9 A location of rock sample for chemical analysis
- GN-52 P location of rock sample for polished section
- XK-1 X location of rock sample for X-ray analysis

ABBREVIATION

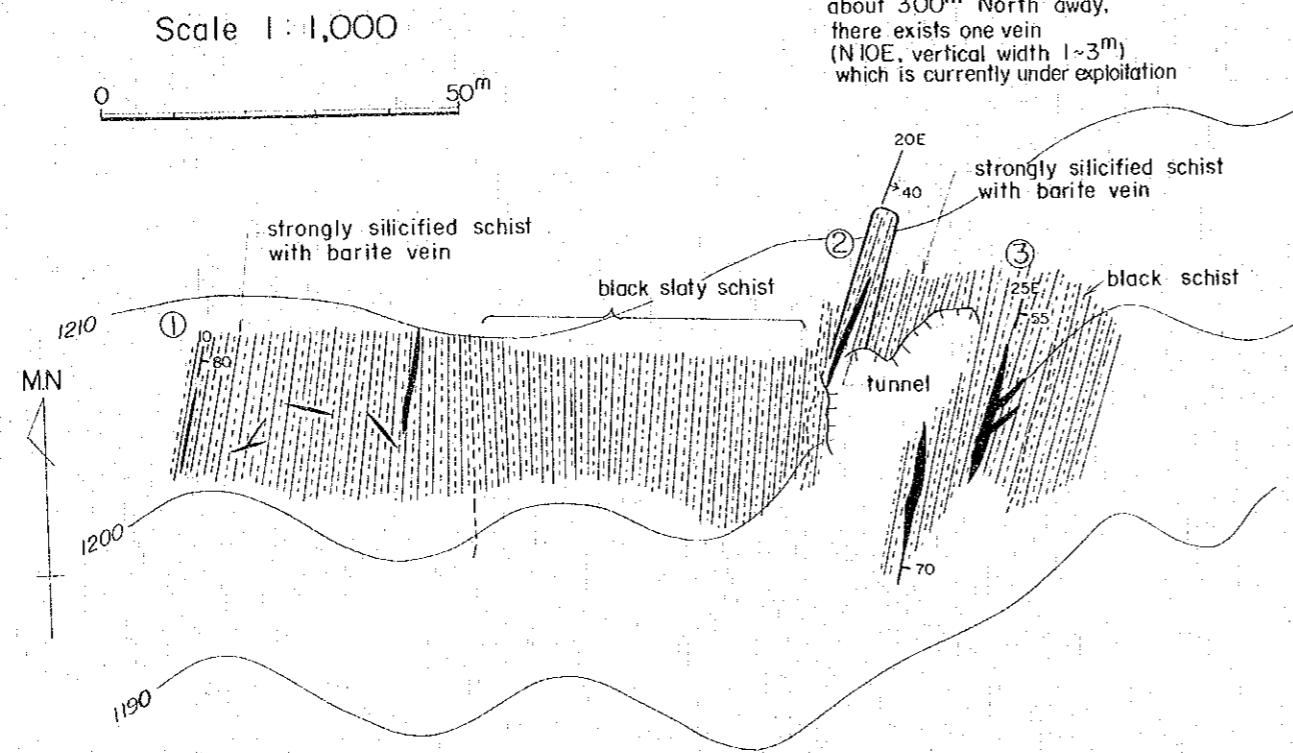
- | | |
|--------------------|---------------------|
| gr ; granite | int ; intercalation |
| ls ; limestone | pel ; pelitic |
| pot ; porphyrite | psm ; psammitic |
| qz ; quartz | st ; strongly |
| sch ; schist | wd ; width |
| sh ; shale | |
| ss ; sandstone | brn ; brown |
| | grn ; green |
| altn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



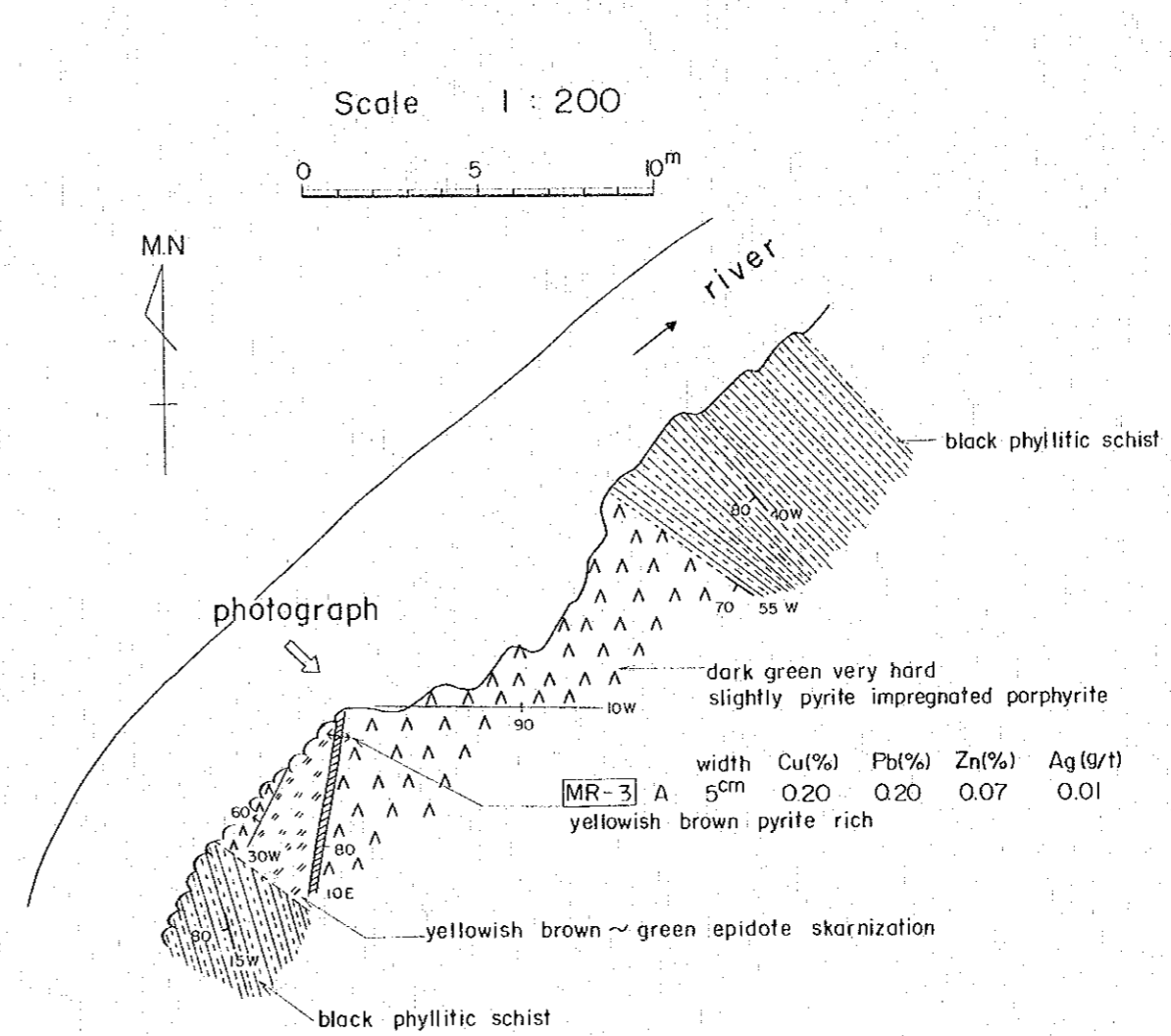
ABBREVIATION

gr ; granite	inf ; 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	

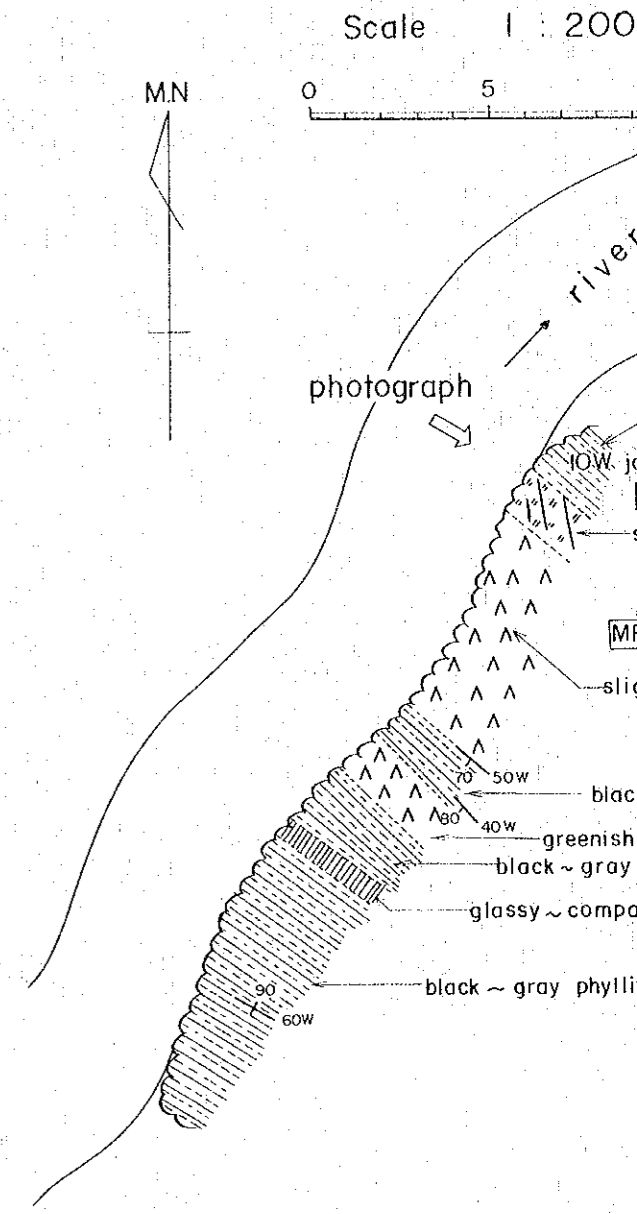
1. Talborit Mine
(Located 5km N of Adassil)



2. Mineralized Showing Ait Bourd No.2
(Located 93^{km} NW of Azegour)



3. Mineralized Showing Ait Bourd No.1
(Located 9.2^{km} NW of Azegour)



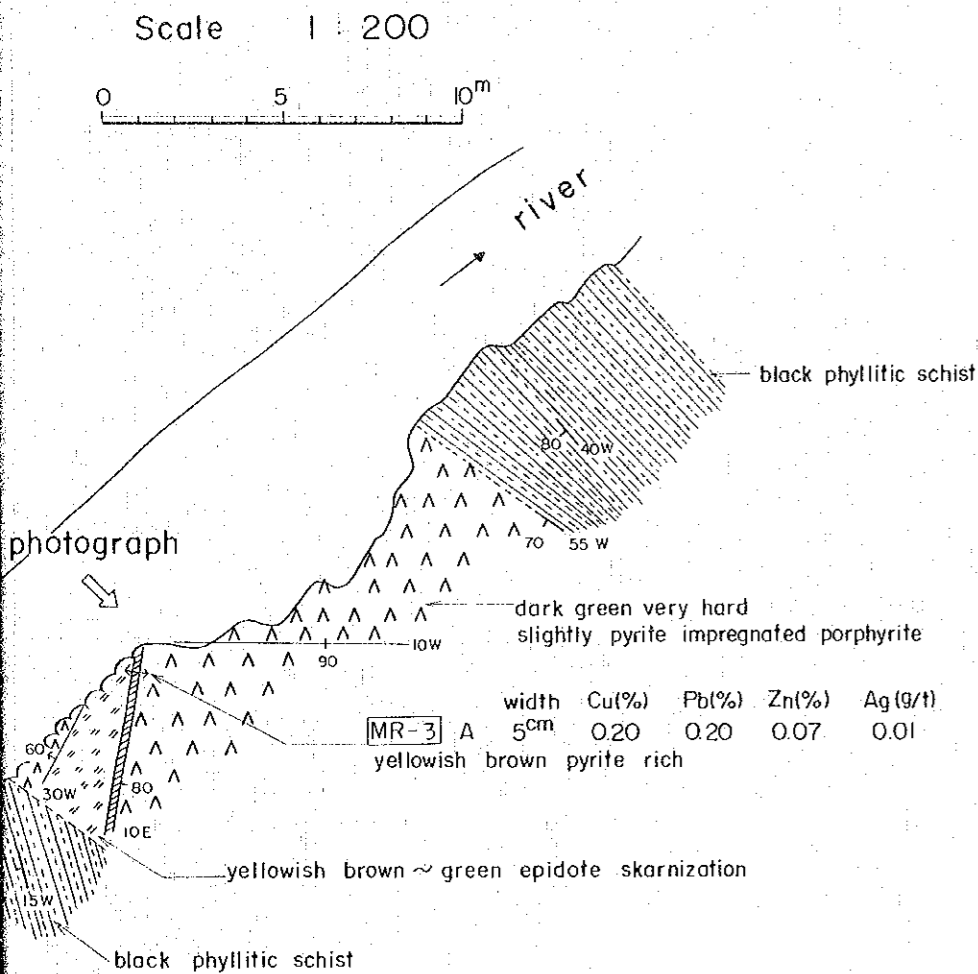
5. Toulkine Mine
(Located 4.5^{km} NW of Azegour)



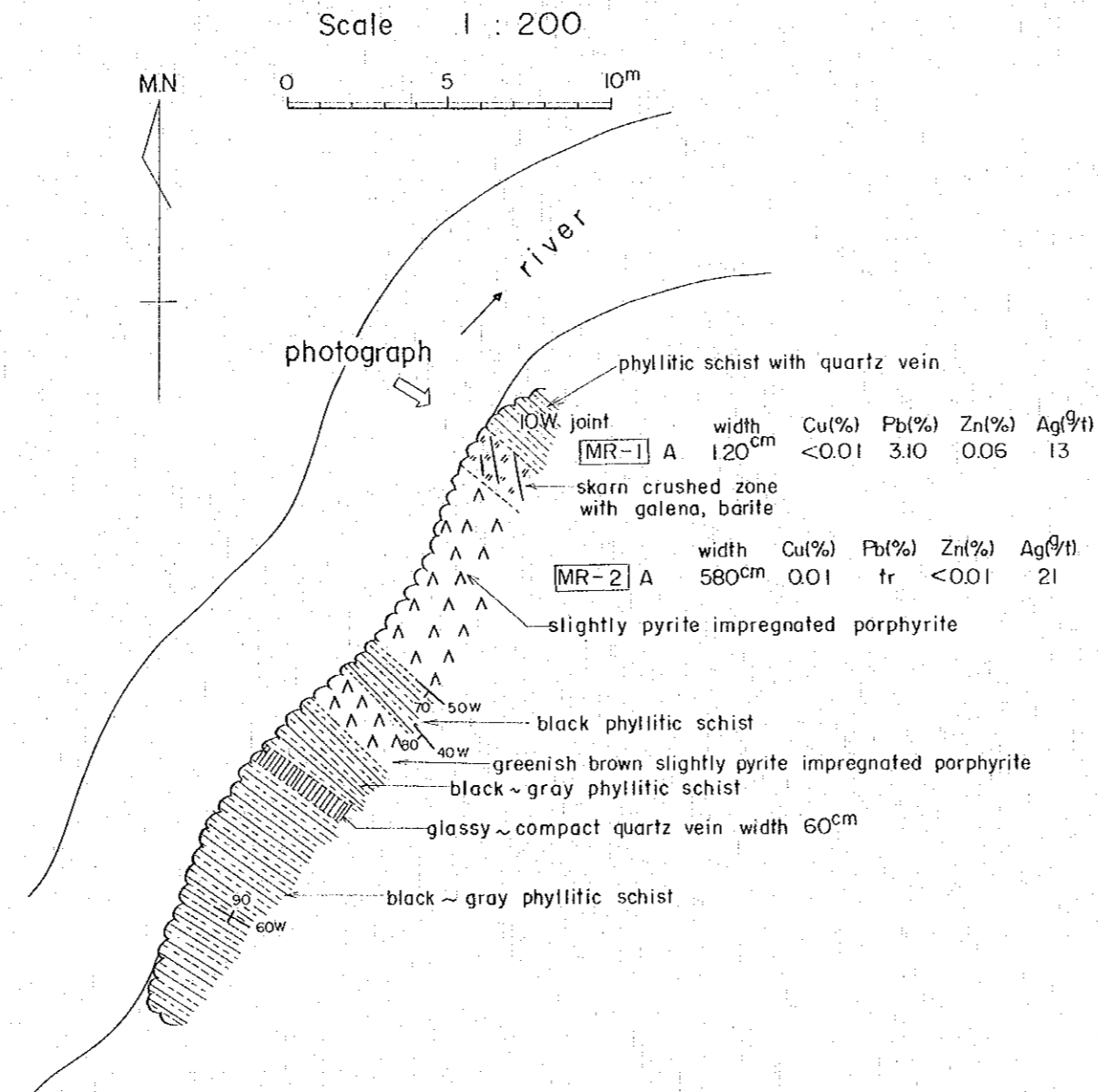
4. Areg Tunnel

6. Cu mineralization

Mineralized Showing Ait Bourd No. 2
(Located 9.3km NW of Azegour)



3. Mineralized Showing Ait Bourd No. 1
(Located 9.2km NW of Azegour)



(NW of Azegour)

Working Pit No. 2

Scale 1:400

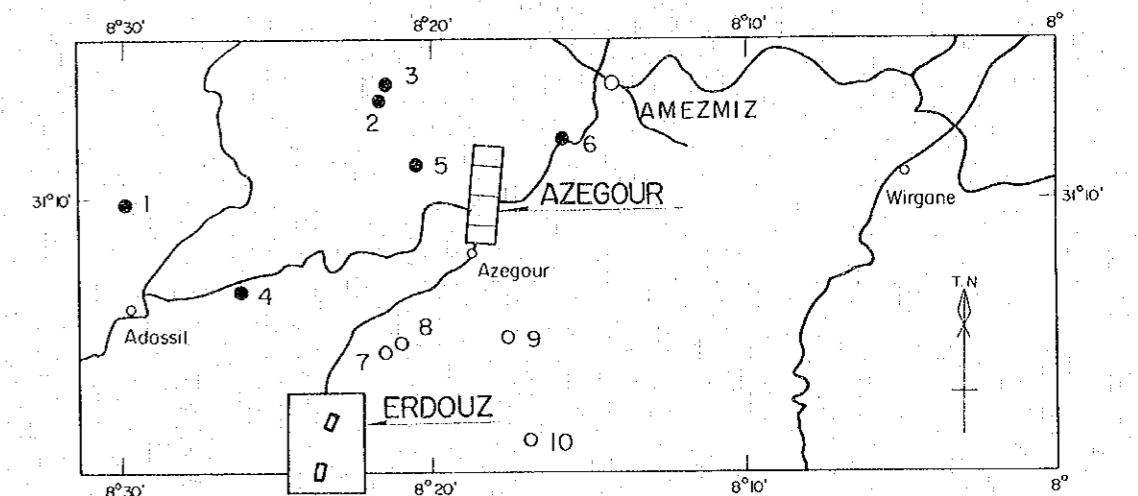
6. Cu mineralization

On the road (Azegour to Amezmiz)

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HAUT ATLAS OCCIDENTAL AREA, MOROCCO
(PHASE I)

DETAILED SKETCH OF
MINERAL SHOWINGS
(1, 2, 3, 4, 5, 6)

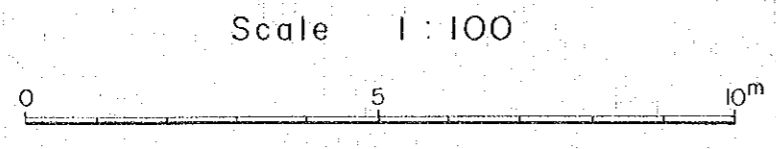


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METAL MINING AGENCY OF JAPAN

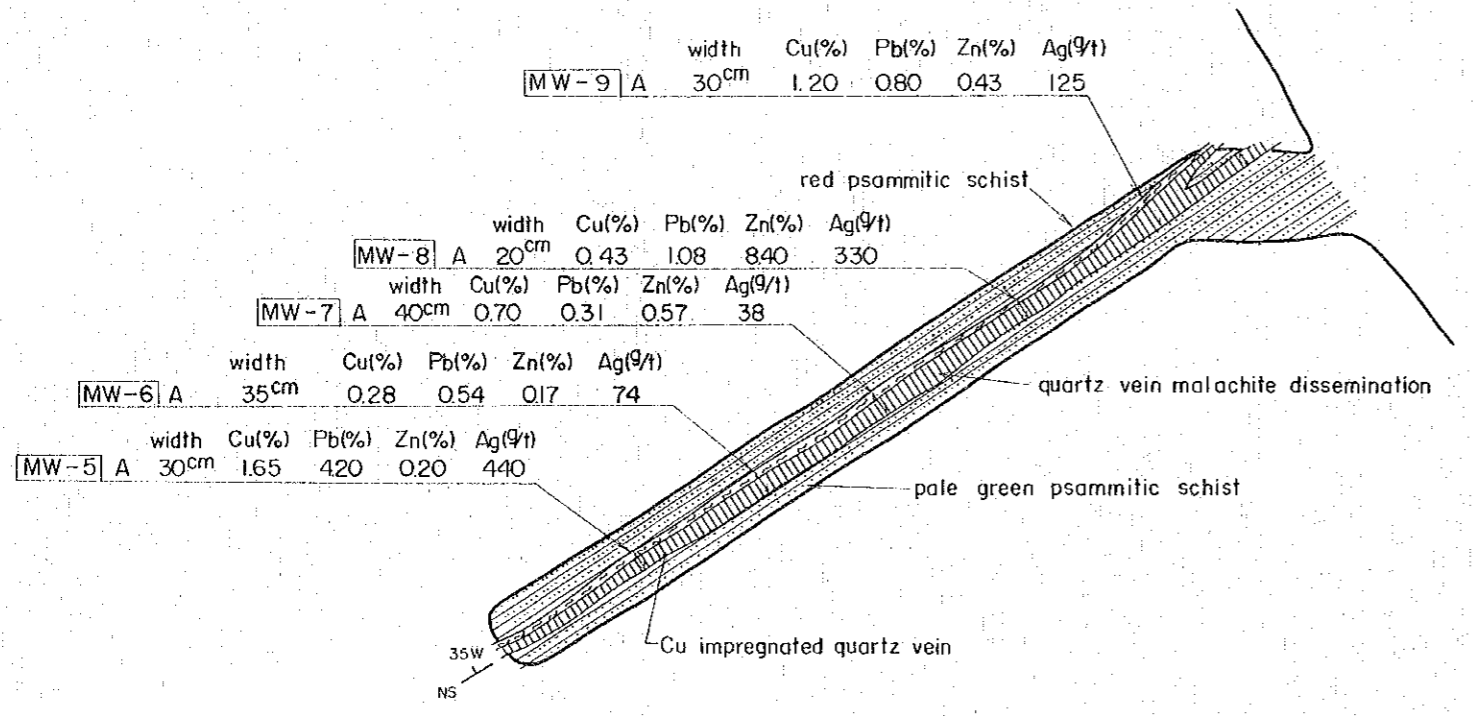
JANUARY 1984

Prepared by MINDECO

4. Areg Tunnel
(Located 5.6km E of Adassil)

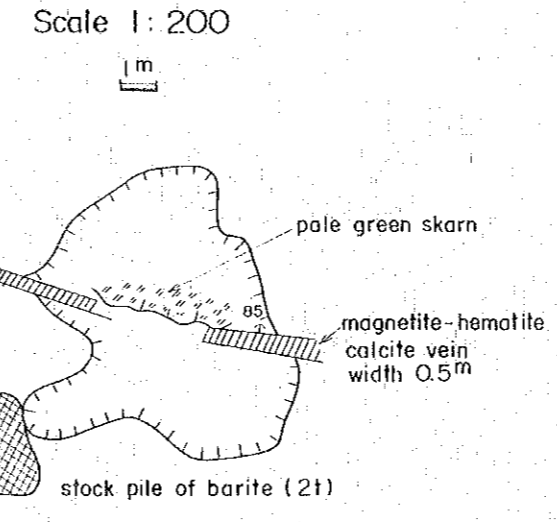


Section

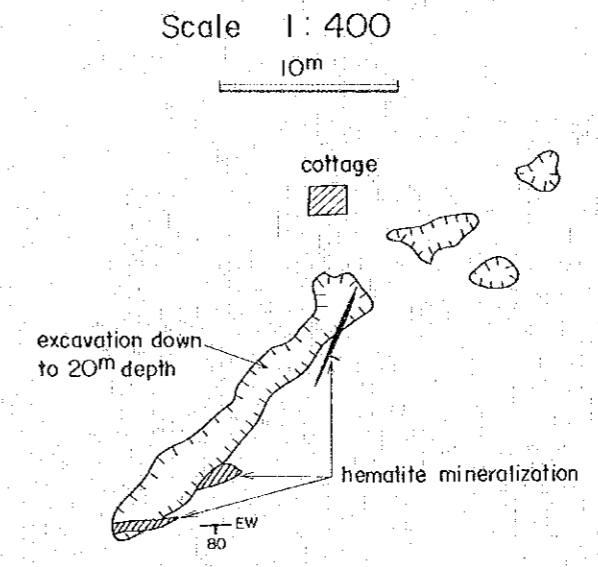


5. Toulkine Mine
(Located 4.5km NW of Azegour)

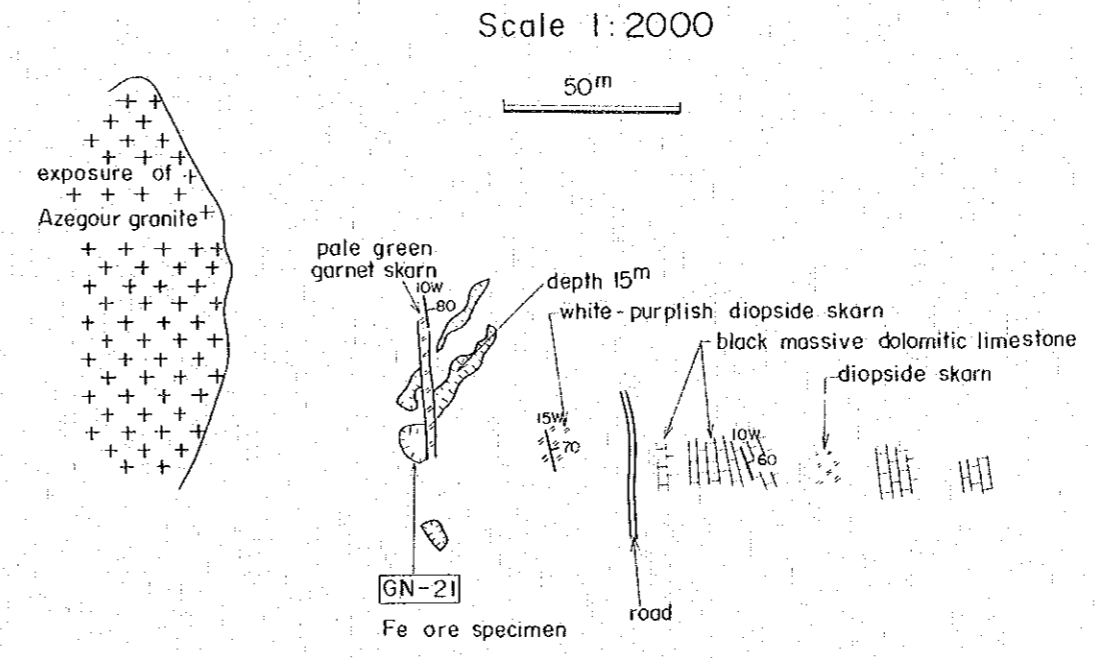
Working Pit No. 1



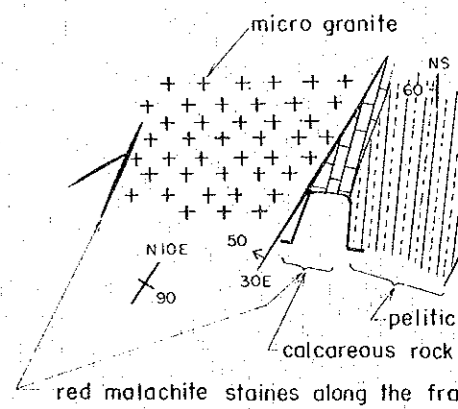
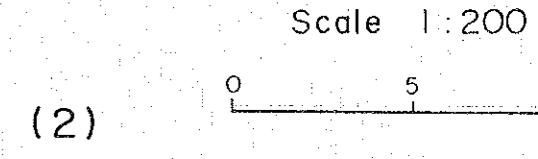
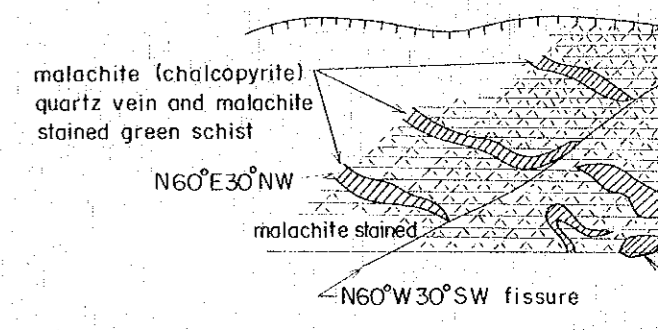
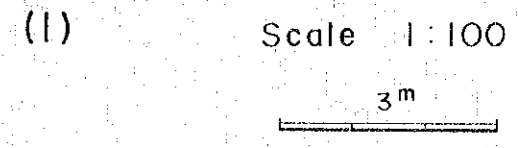
Working Pit No. 2



Working Pit No. 3



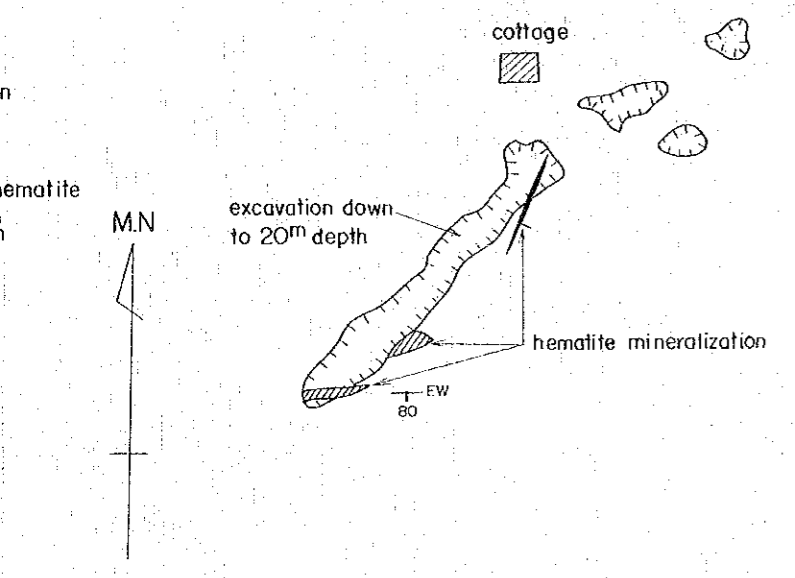
6. Cu mineralization
On the road (Azegour)



of Azegour)

Working Pit No. 2

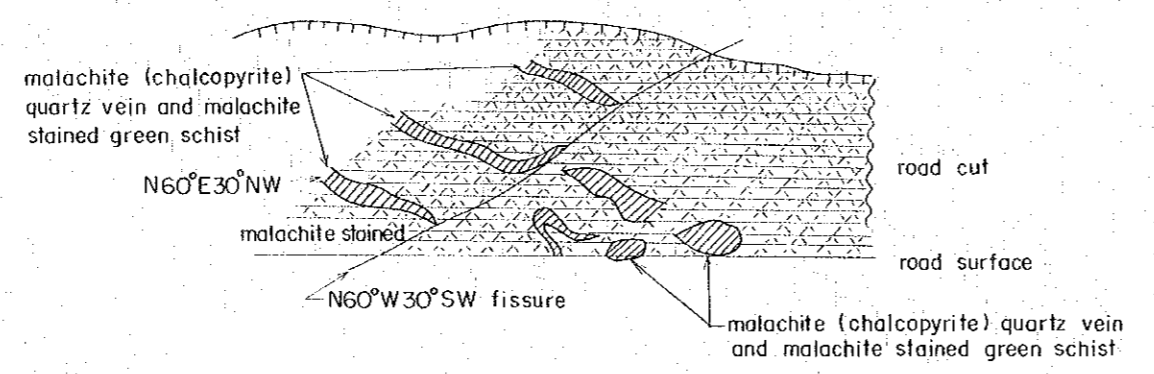
Scale 1:400
10m



6. Cu mineralization

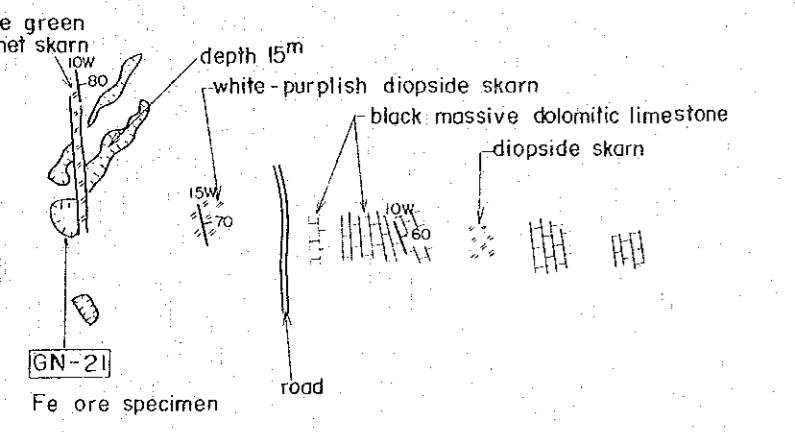
On the road (Azegour to Amezmiz)

(1) Scale 1:100
3m

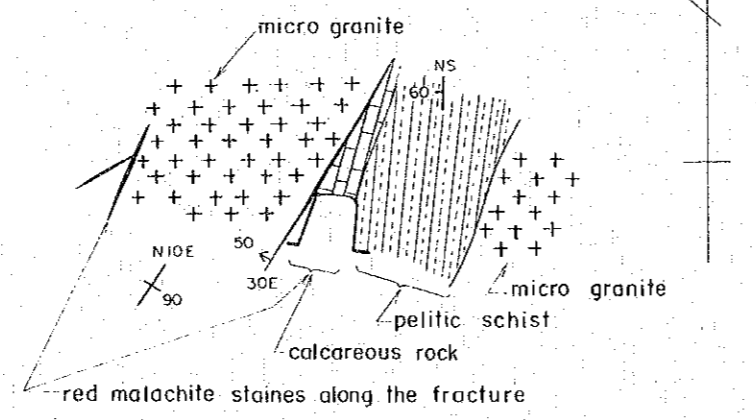


Working Pit No. 3

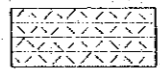

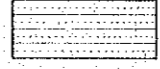

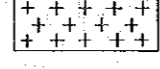
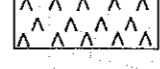
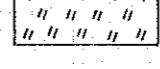
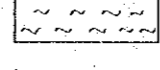
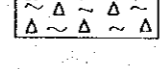

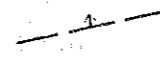

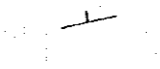
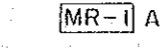
Scale 1:2000
50m



(2) Scale 1:200
0 5 10m

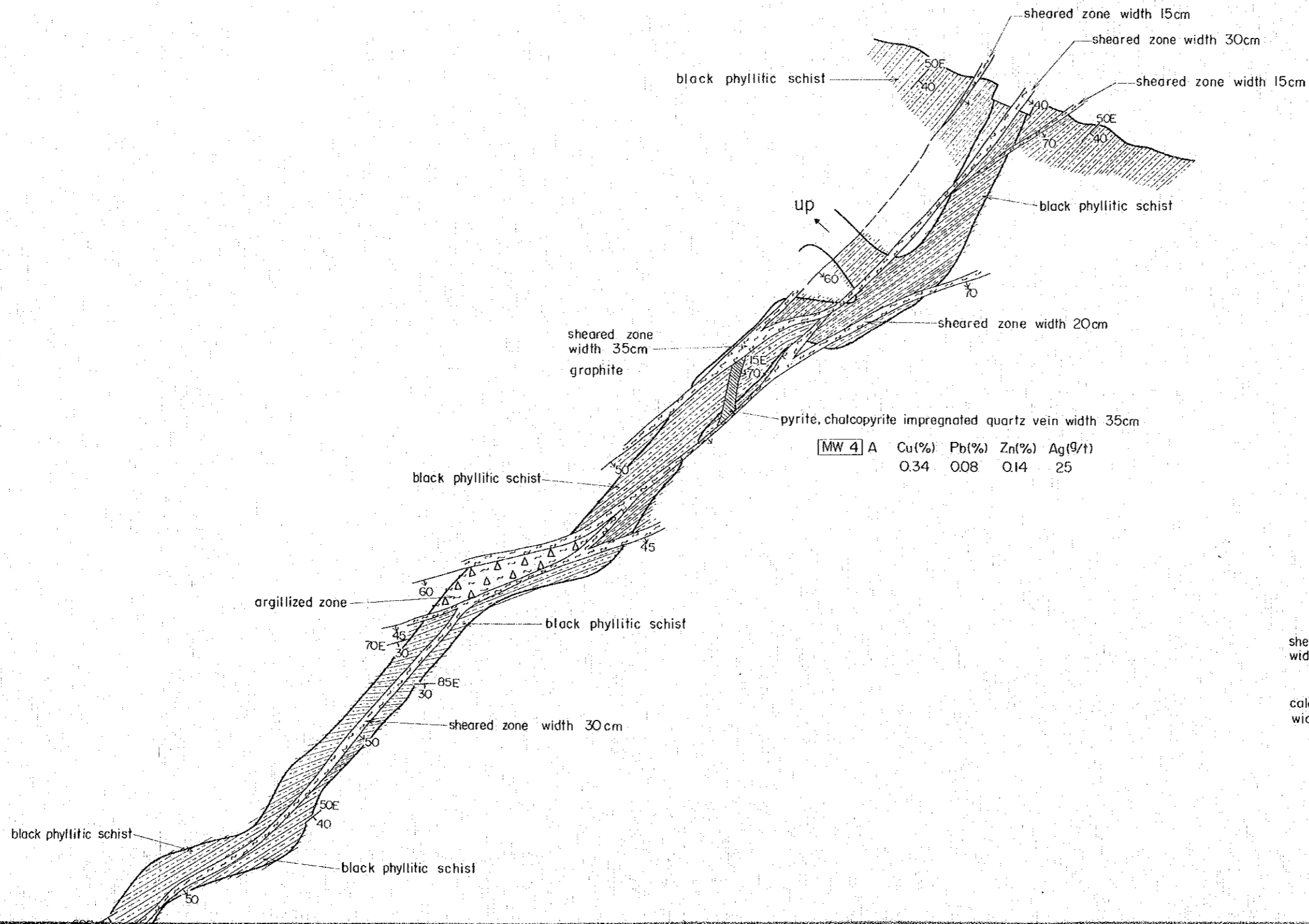
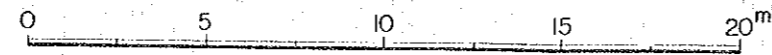


LEGEND

-  green schist (tuff & tuff breccia)
-  pelitic schist
-  psammitic schist
-  limestone
-  granite
-  porphyrite
-  skarn
-  sheared zone
-  argillized zone
-  vein
-  fault
-  synclinal axis
-  bedding plane
-  MR-1 A sample No.

7. Anamrou Tunnel No.2
(Located 8km SW of Azegour)

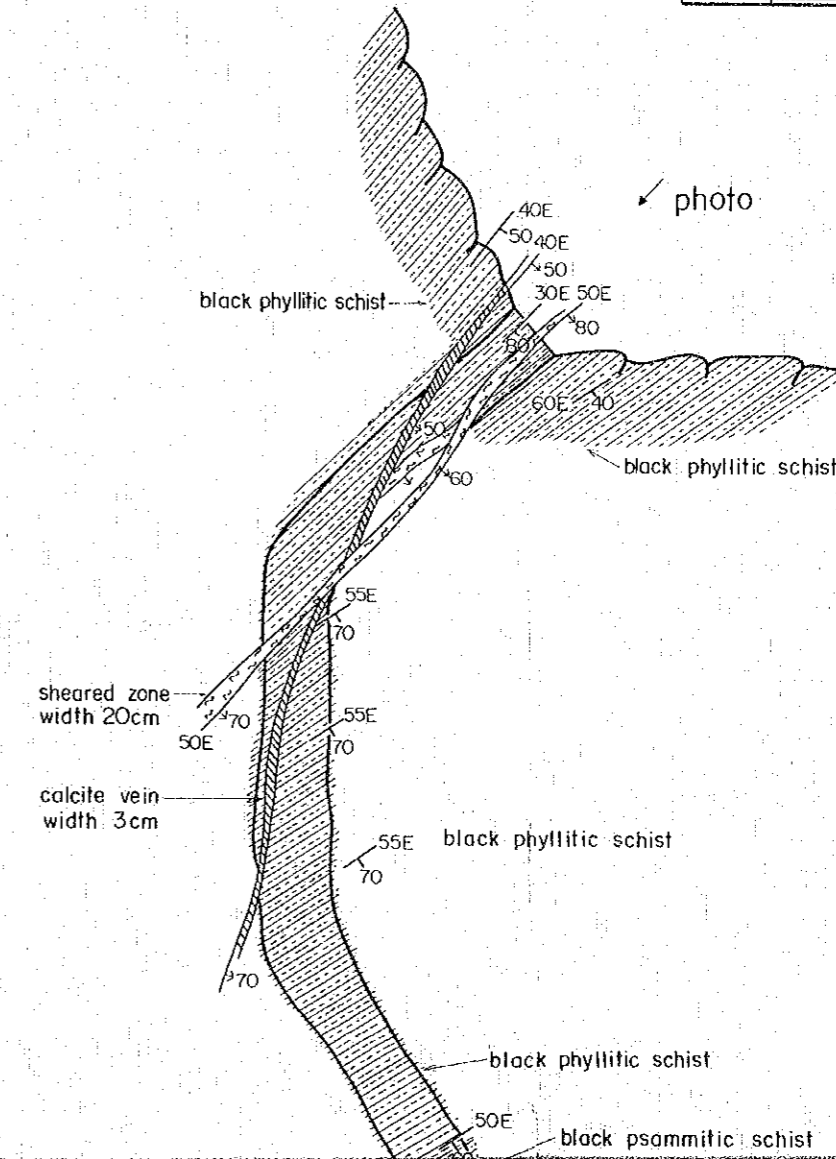
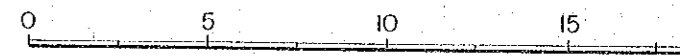
Scale 1 : 200



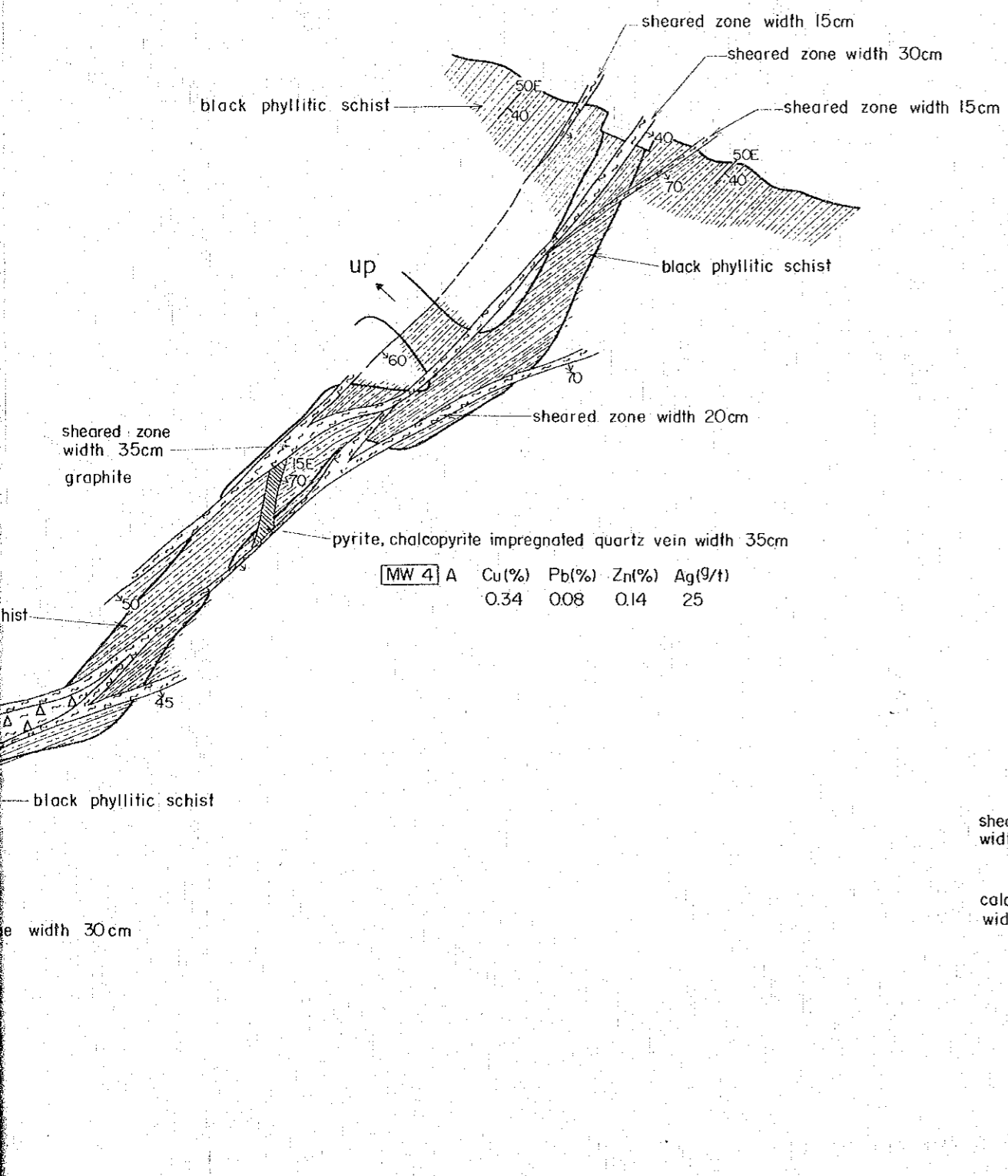
[MW 4] A	Cu(%)	Pb(%)	Zn(%)	Ag(g/t)
	0.34	0.08	0.14	25

8. Anamrou Tunnel No.1
(Located 7.1km SW of Azegour)

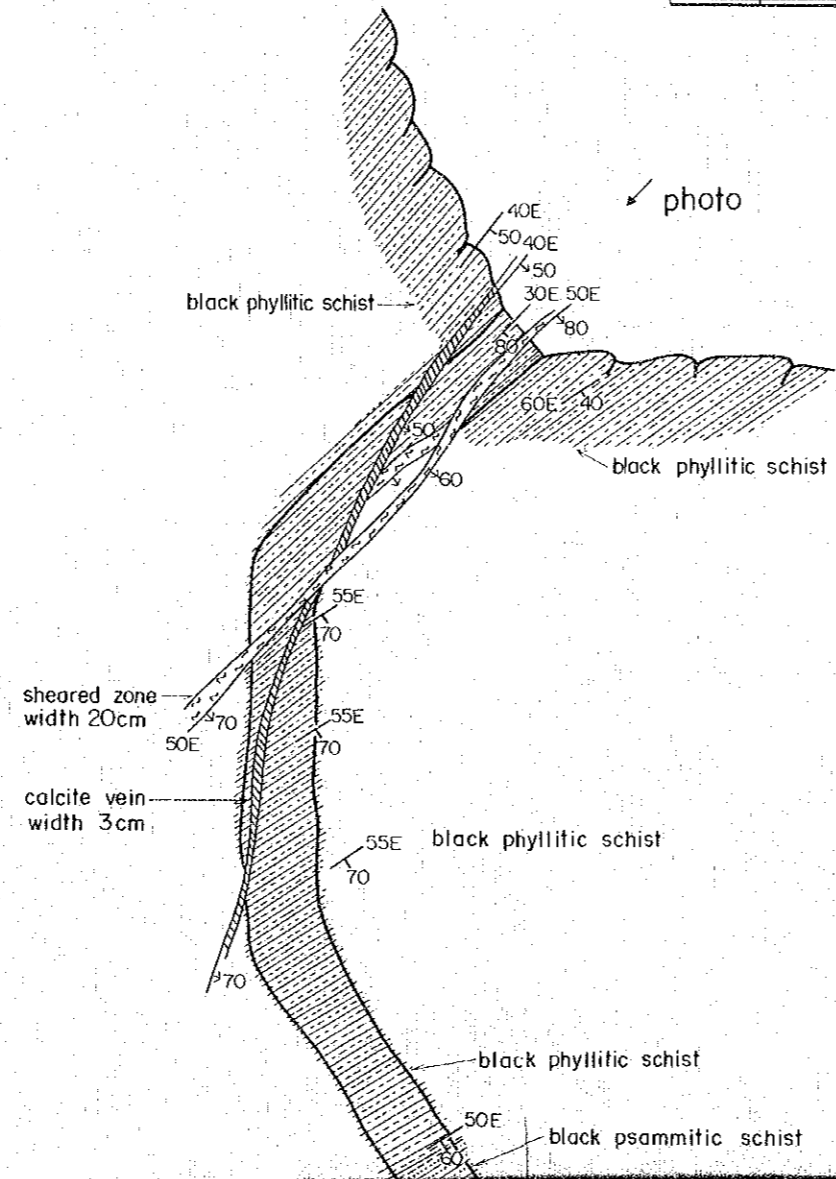
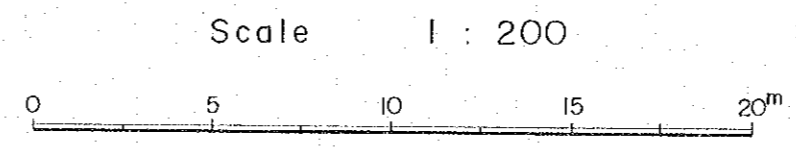
Scale 1 : 200



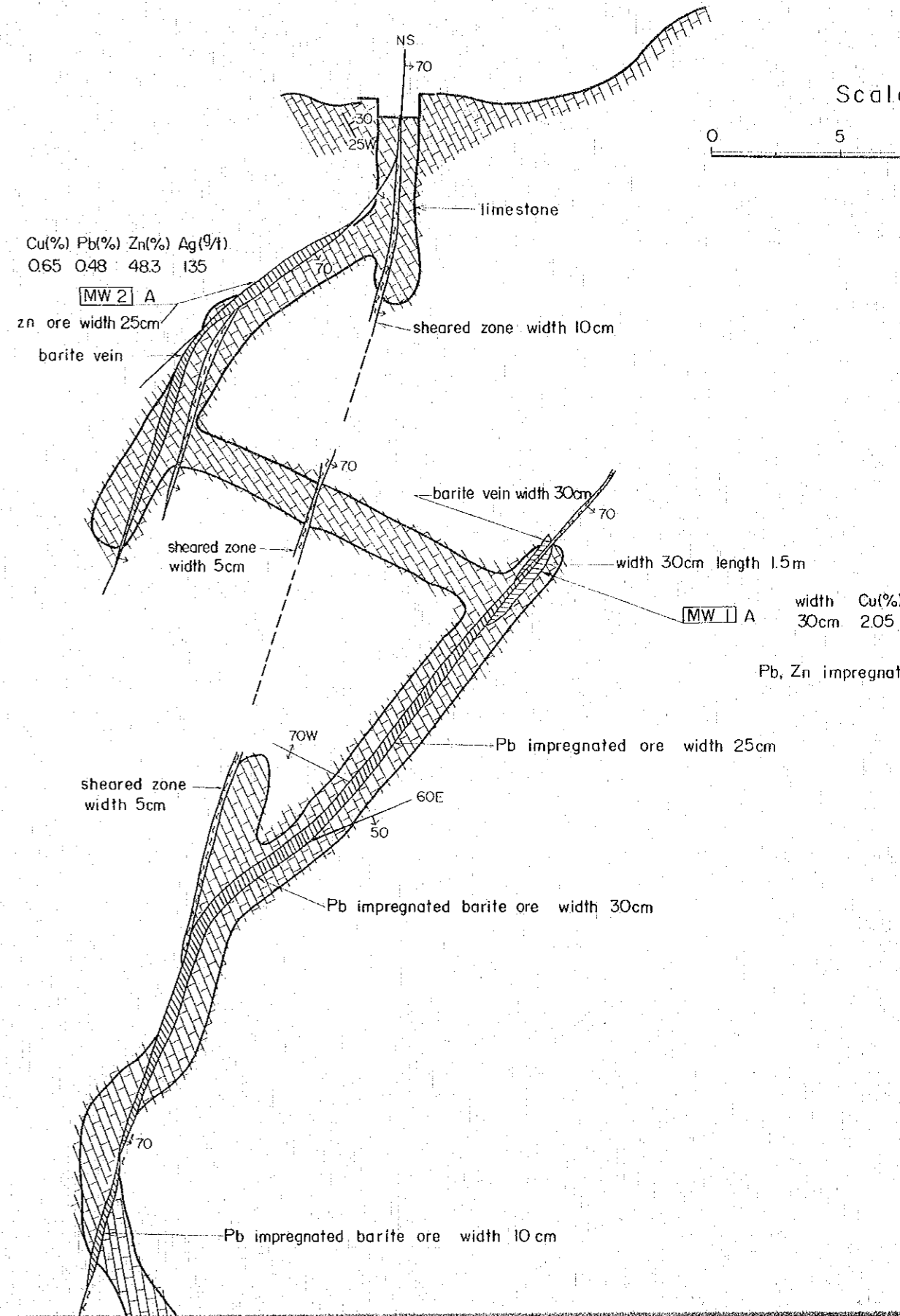
Tunnel No.2
(Located SW of Azegour)



8. Anamrou Tunnel No.1
(Located 7.1 km SW of Azegour)



9. Tilftine
(Located ...)



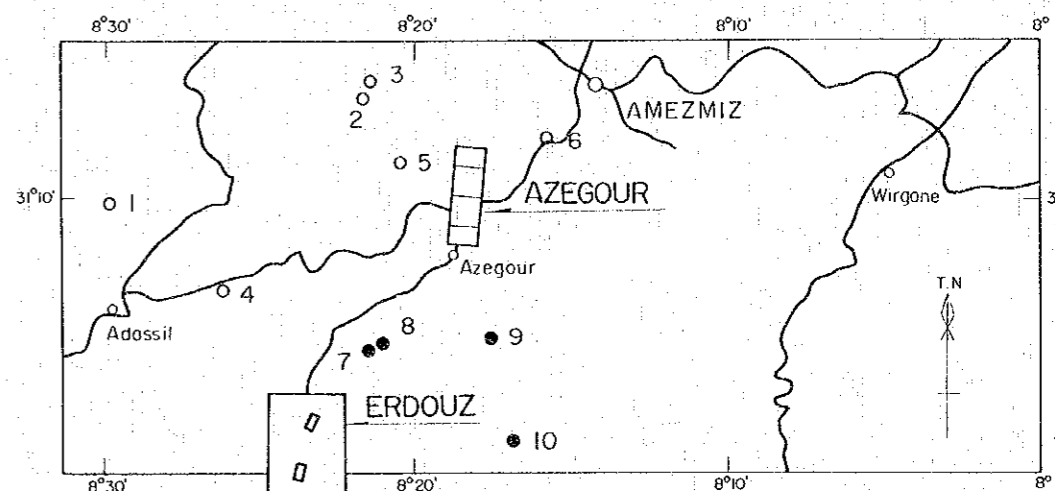
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(PHASE I)

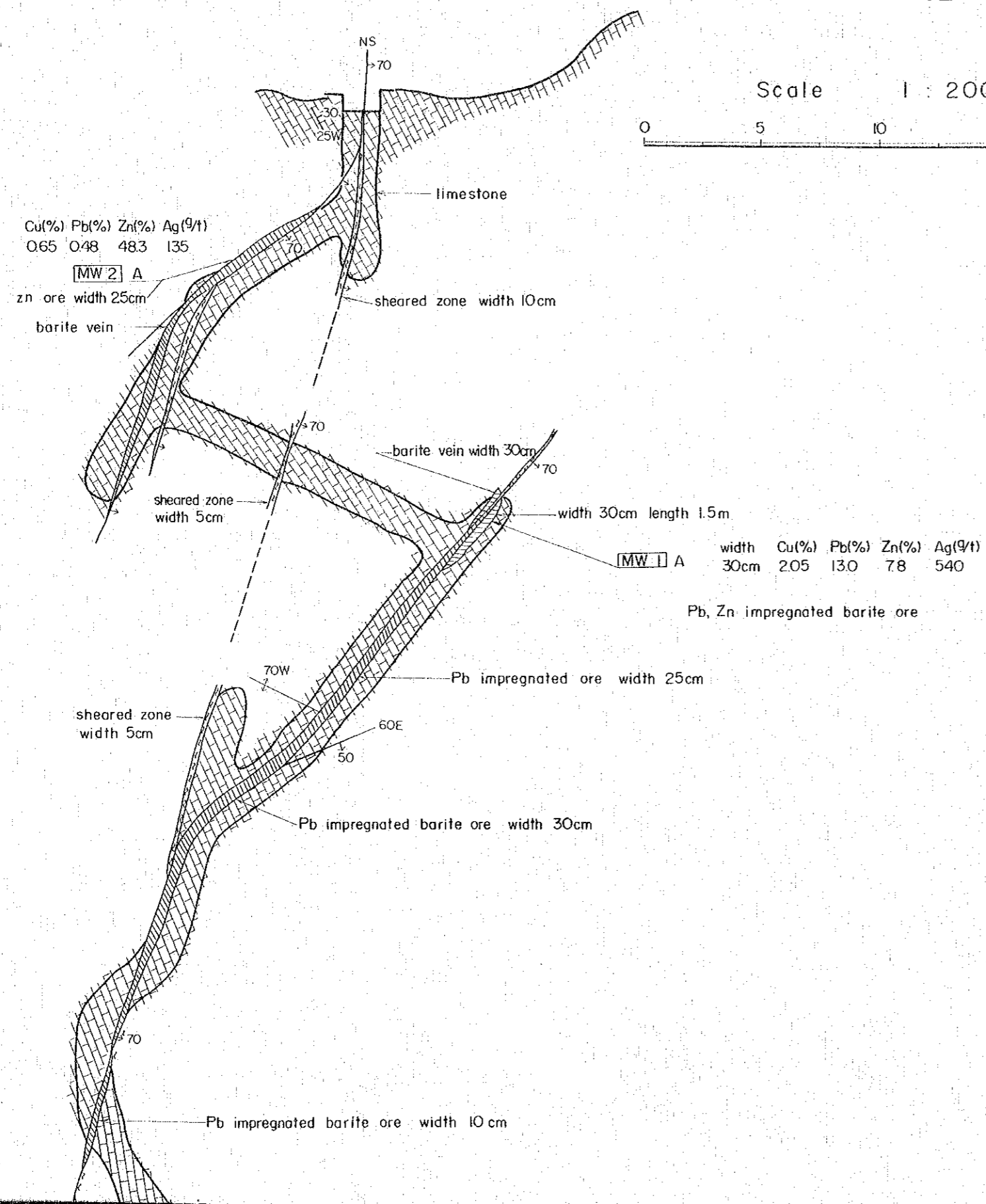
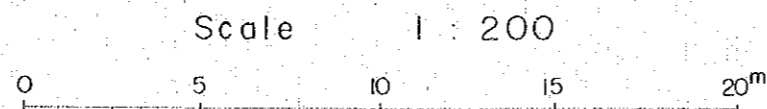
DETAILED SKETCH OF
MINERAL SHOWINGS
(7 , 8 , 9 , 10)



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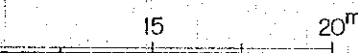
9. Tilflitine Tunnel
(Located 3.8km SE of Azegour)

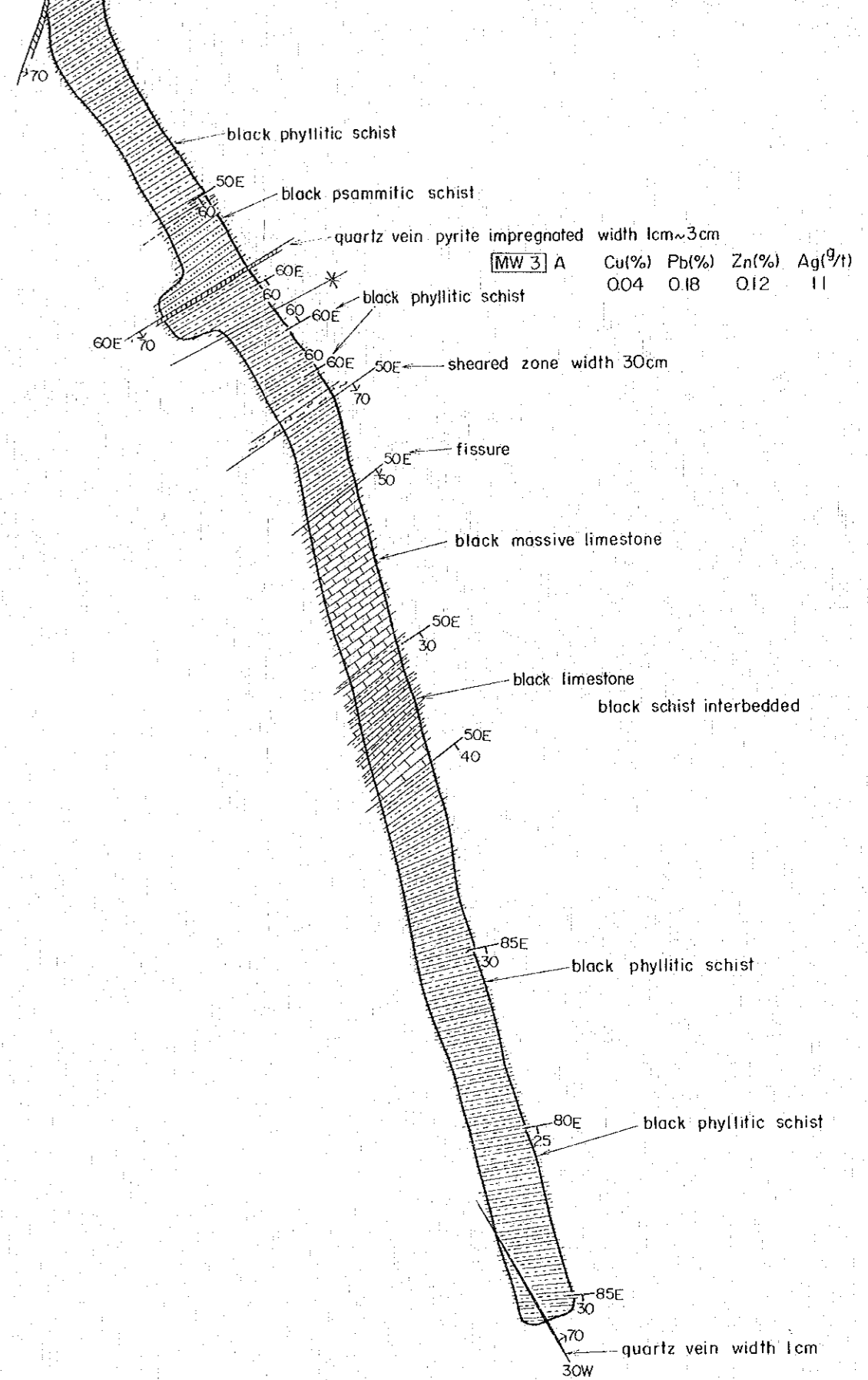
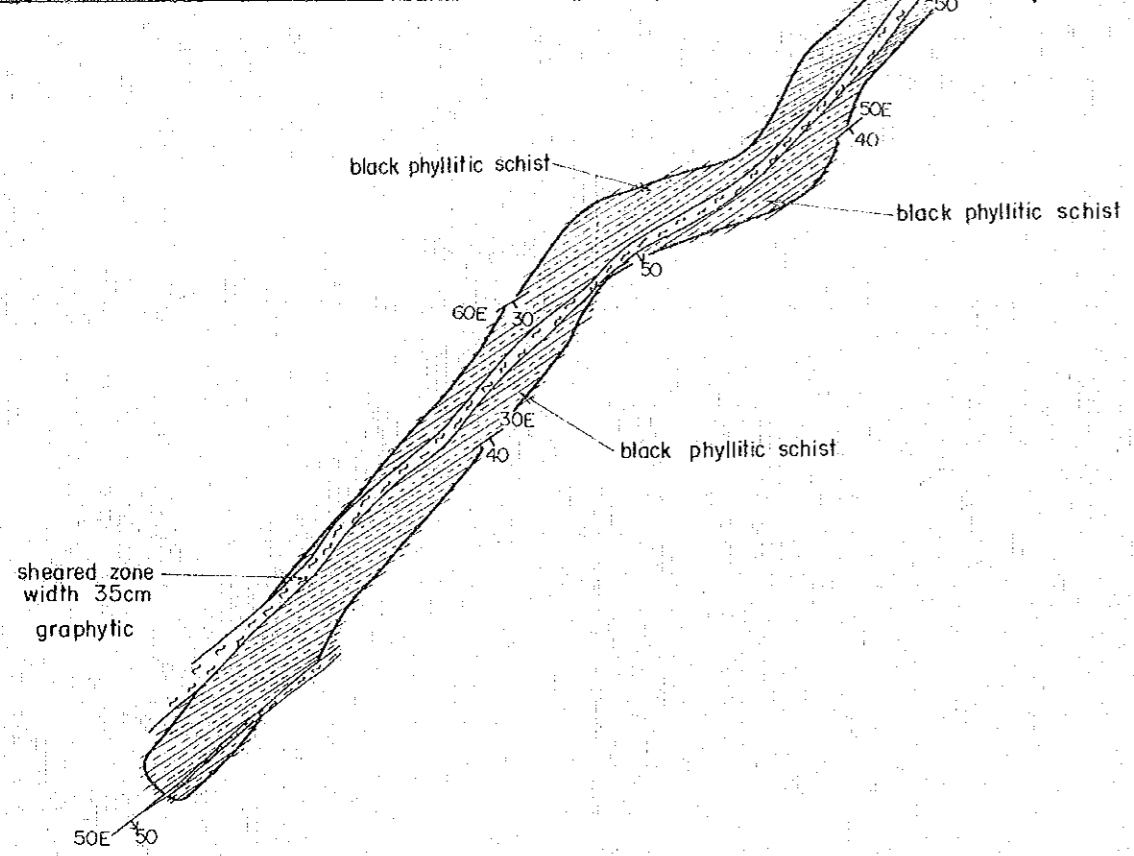
M.N

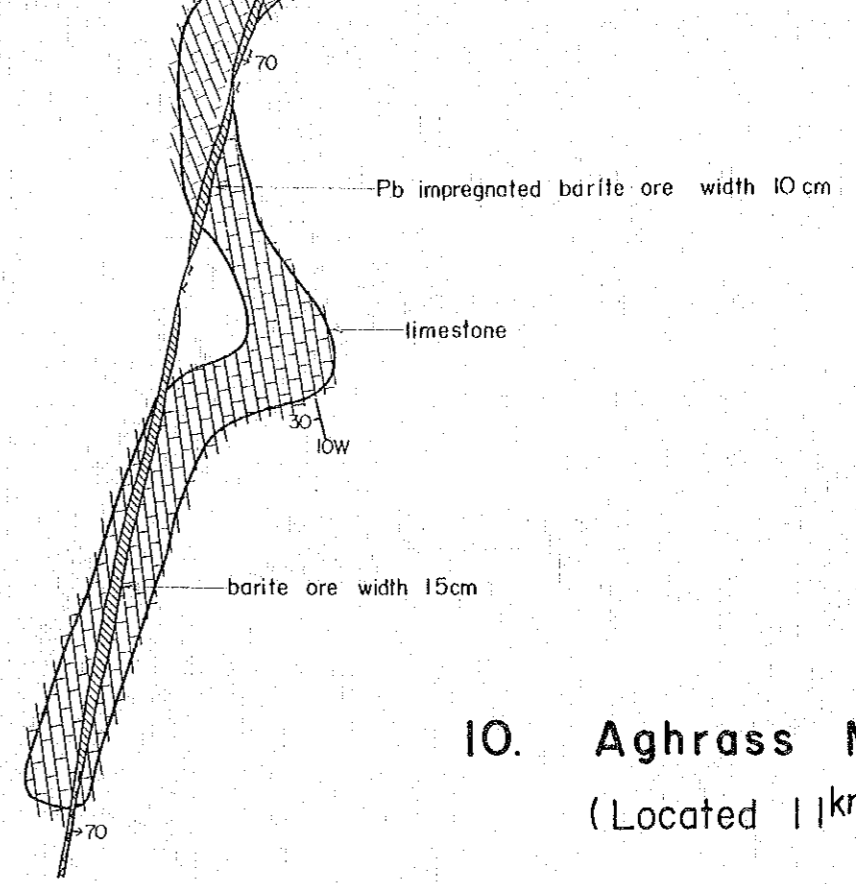
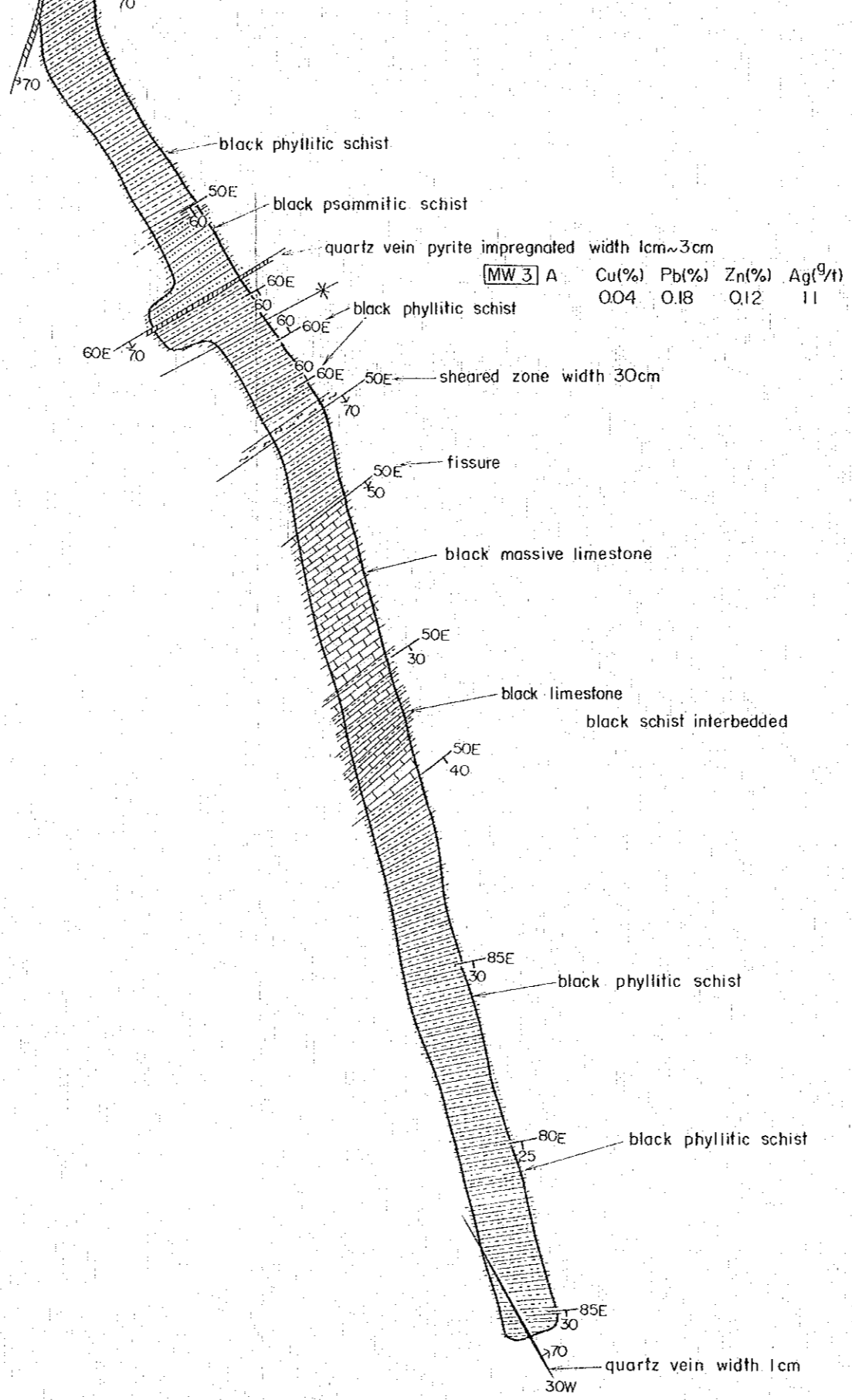


el No. 1
(W of Azegour)

Scale 1:200

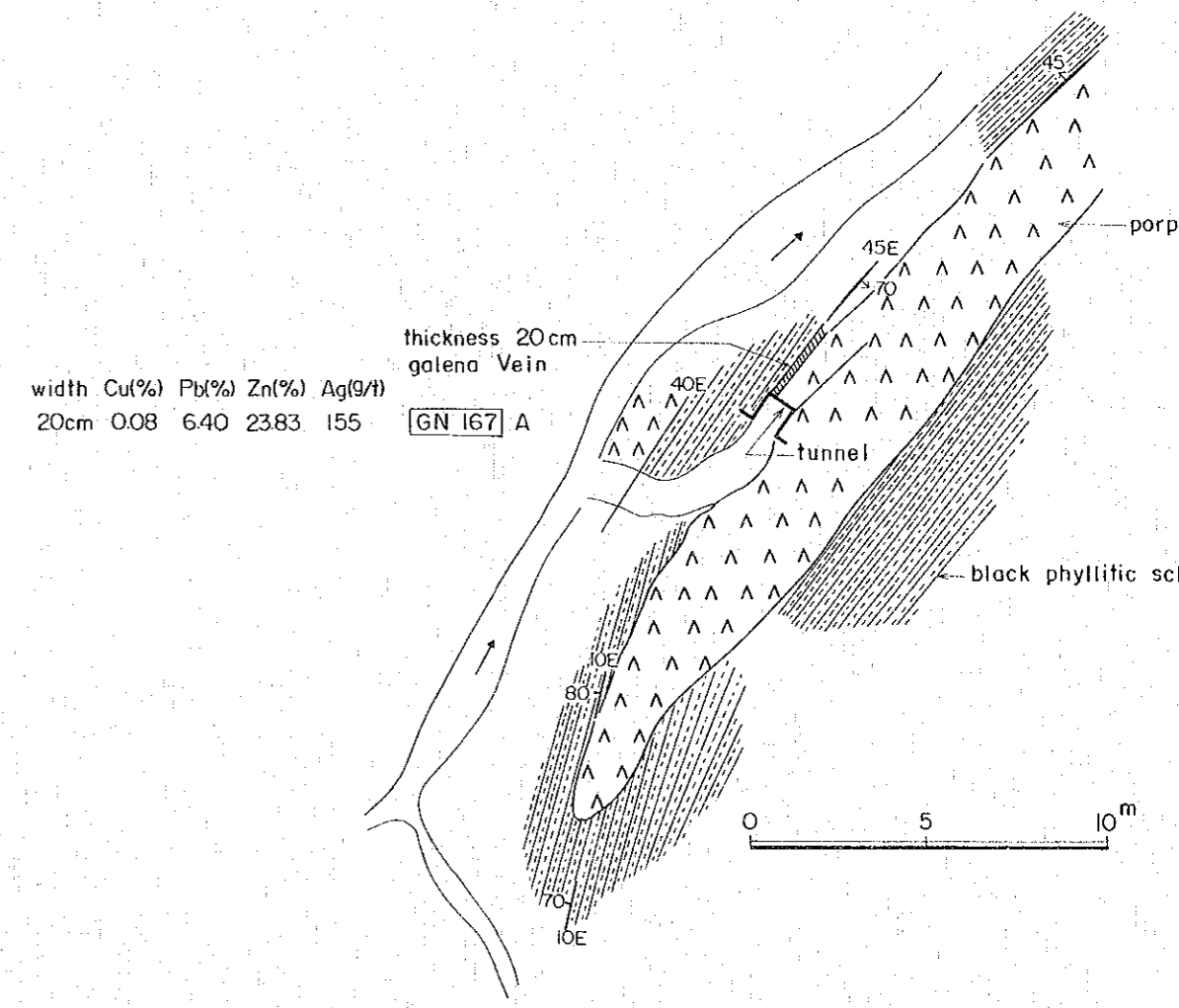




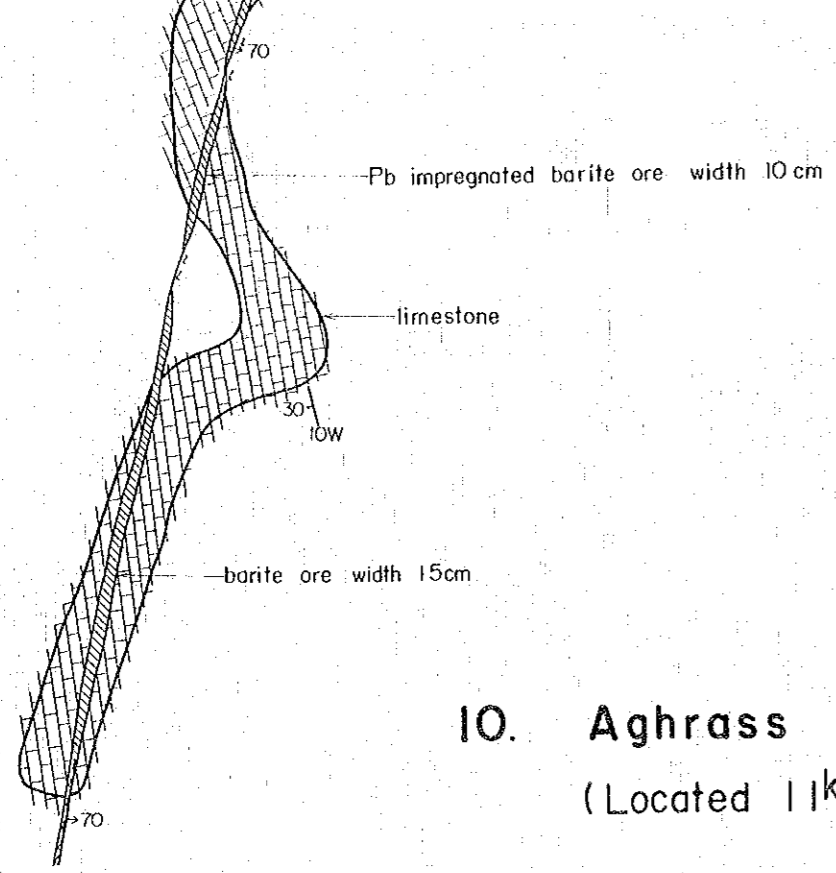


10. Aghrass Mine
(Located 11km SE of Azegour)

Scale 1 : 200

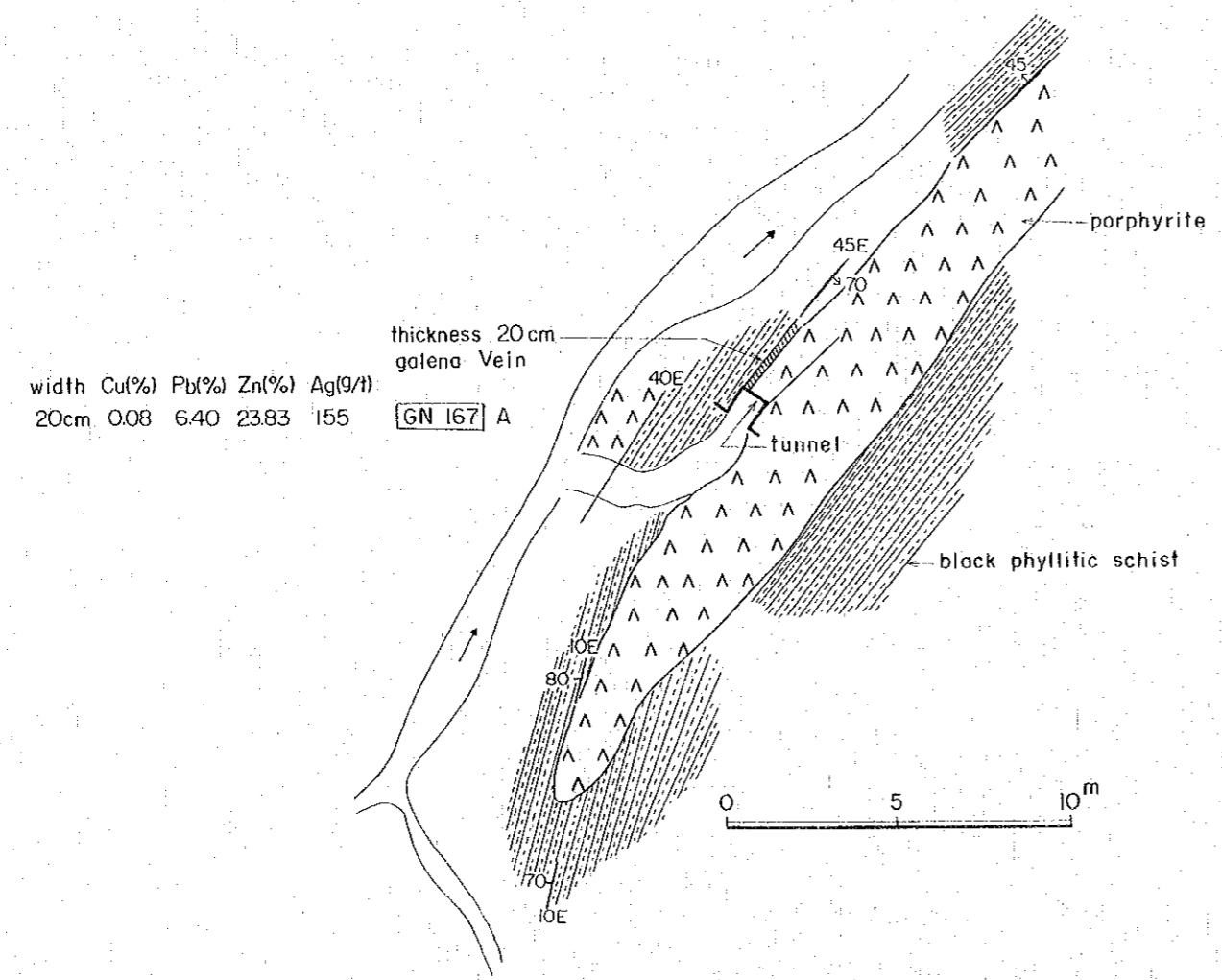


~3cm
 Pb(%) Zn(%) Ag(9/t)
 0.18 0.12 11



10. Agrhass Mine
 (Located 11km SE of Azegour)

Scale 1 : 200

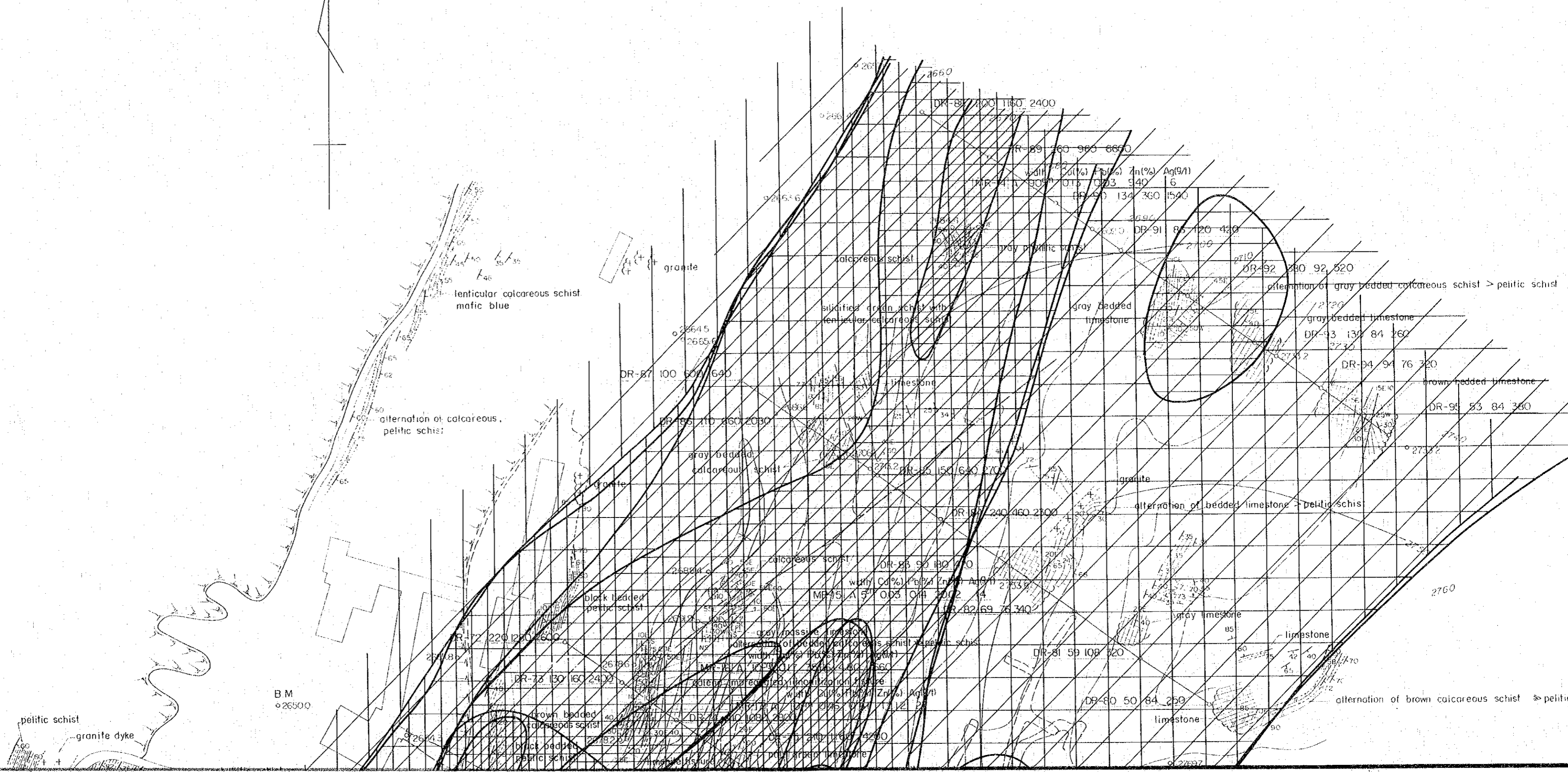


width Cu(%) Pb(%) Zn(%) Ag(9/t)
 20cm 0.08 6.40 23.83 155

GN 167 A

- LEGEND**
- green schist (tuff & tuff breccia)
 - pelitic schist
 - psammitic schist
 - limestone
 - porphyrite
 - sheared zone
 - argillized zone
 - vein
 - fault
 - synclinal axis
 - bedding plane
 - MW-2 A sample No.

M.N



lenticular calcareous schist
mafic blue

alternation of calcareous,
pelitic schist

granite

calcareous schist
silicified green schist with
interbedded calcareous schist

gray bedded
limestone

alternation of gray bedded calcareous schist > pelitic schist

gray bedded limestone

brown bedded limestone

granite

granite

alternation of bedded limestone > pelitic schist

calcareous schist

black bedded
pelitic schist

alternation of bedded calcareous schist & pelitic schist

gray limestone

limestone

pelitic schist

granite dyke

B.M.
26500

brown bedded
calcareous schist

limestone

alternation of brown calcareous schist > pelitic

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-87	10.15	0.03	5.40	6
DR-88	13.4	3.60	15.40	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-89	10.15	0.03	5.40	6
DR-90	13.4	3.60	15.40	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-91	8.5	1.20	4.50	
DR-92	2.80	9.2	5.20	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-93	13.0	8.4	2.60	
DR-94	9.4	7.6	3.20	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-95	5.3	8.4	3.60	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-87	10.0	6.0	6.40	
DR-88	11.0	2.60	2.030	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-89	15.0	6.40	2.70	
DR-90	2.40	4.60	2.700	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-91	5.0	1.80	1.70	
DR-92	2.20	1.20	2.70	

width	Ca(%)	Mg(%)	Zn(%)	Ag(9/1)
DR-93	10.0	1.20	2.030	
DR-94	2.20	1.20	2.70	

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DR-95	5.0	1.80	1.70	

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