

98/02/10

98-096

Formation: Lower Chance
Area: Yukon
Location: J-19

CORE ANALYSIS

NORTHERN CROSS

NowSCO Representative: Randy Wilson



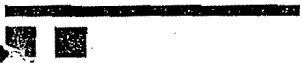


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S.E.M. Photomicrograph Micron Marker System

The bars and dots located on the lower right hand corner of the photographs provide a means of relating the size of the magnified images to their actual sizes.

The actual marker bar length corresponding to the various dot coding is as follows.

Marker Display	Marker Bar Length	
	mm	(μ m)
	0.0001	0.1 (1000 Å)
	0.001	1.0
	0.01	10.0
	0.1	100.0
	1.0	1000.0

Determining Magnification

Measure the marker bar length (from picture in millimetres), and divide the actual marker bar length (from the table above in microns) and multiply the result by 1000.

Marker bar measurement from photomicrograph = 10.5 mm, with 2 dot coding
 Actual marker bar length from table above in microns = 10 microns

$$\frac{10.5 \text{ mm}}{10 \text{ microns}} \times 1000 = 1050 \text{ magnification}$$

Determining Particle Size

Measure the item of interest from the photomicrograph in millimetres. Next, measure the marker bar length from the photomicrograph in millimetres. Divide the item length by the marker bar length and multiply the result by the corresponding marker bar length in millimetres from the table above.

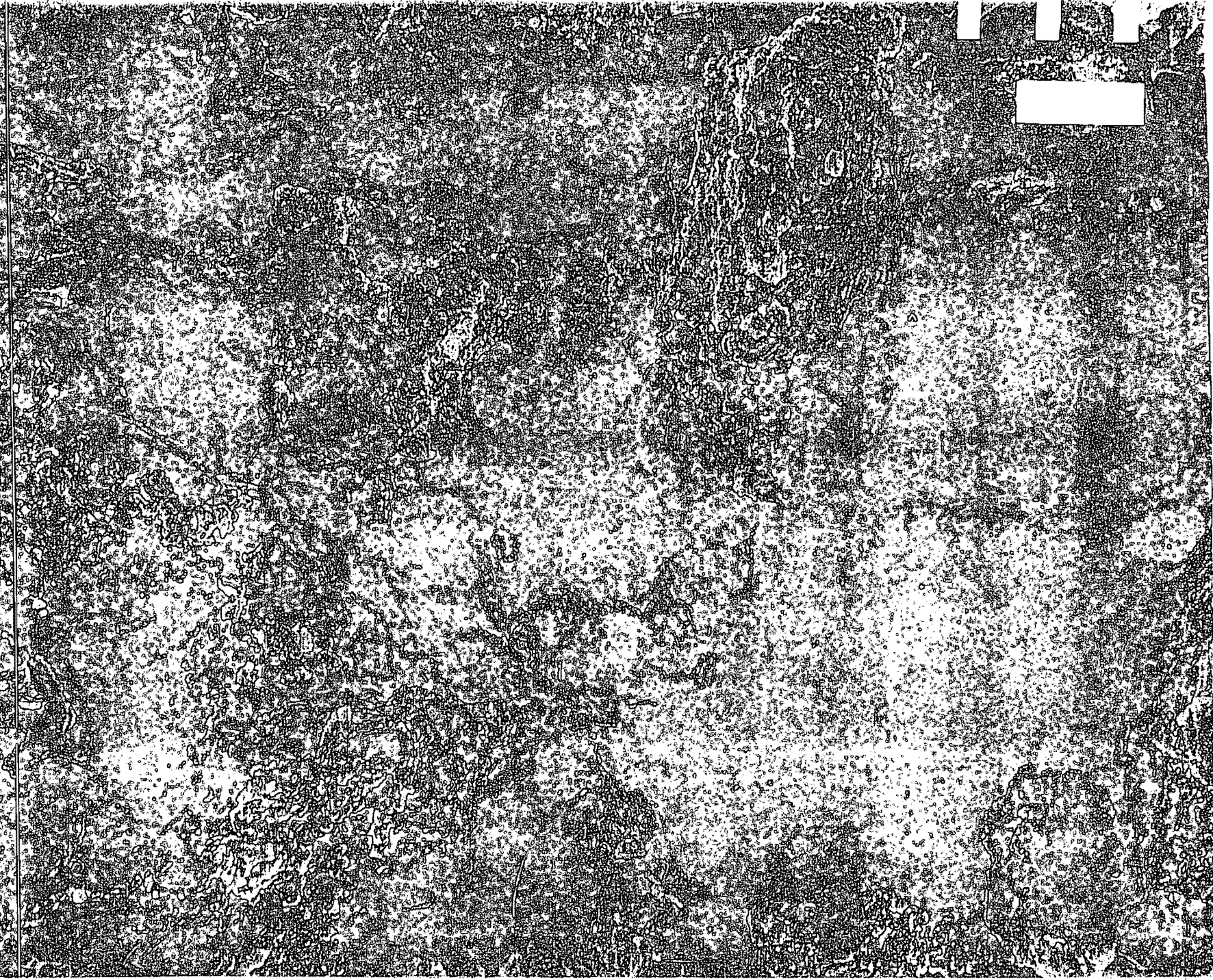
Item length from photomicrograph = 8 mm
 Marker bar length from photomicrograph = 11 mm, 2 dot coding
 Marker bar length from above table with corresponding 2 dot coding = 0.01 mm

$$\frac{8 \text{ mm}}{11 \text{ mm}} \times 0.01 \text{ mm} = 0.0072 \text{ mm or } 7.2 \text{ microns}$$

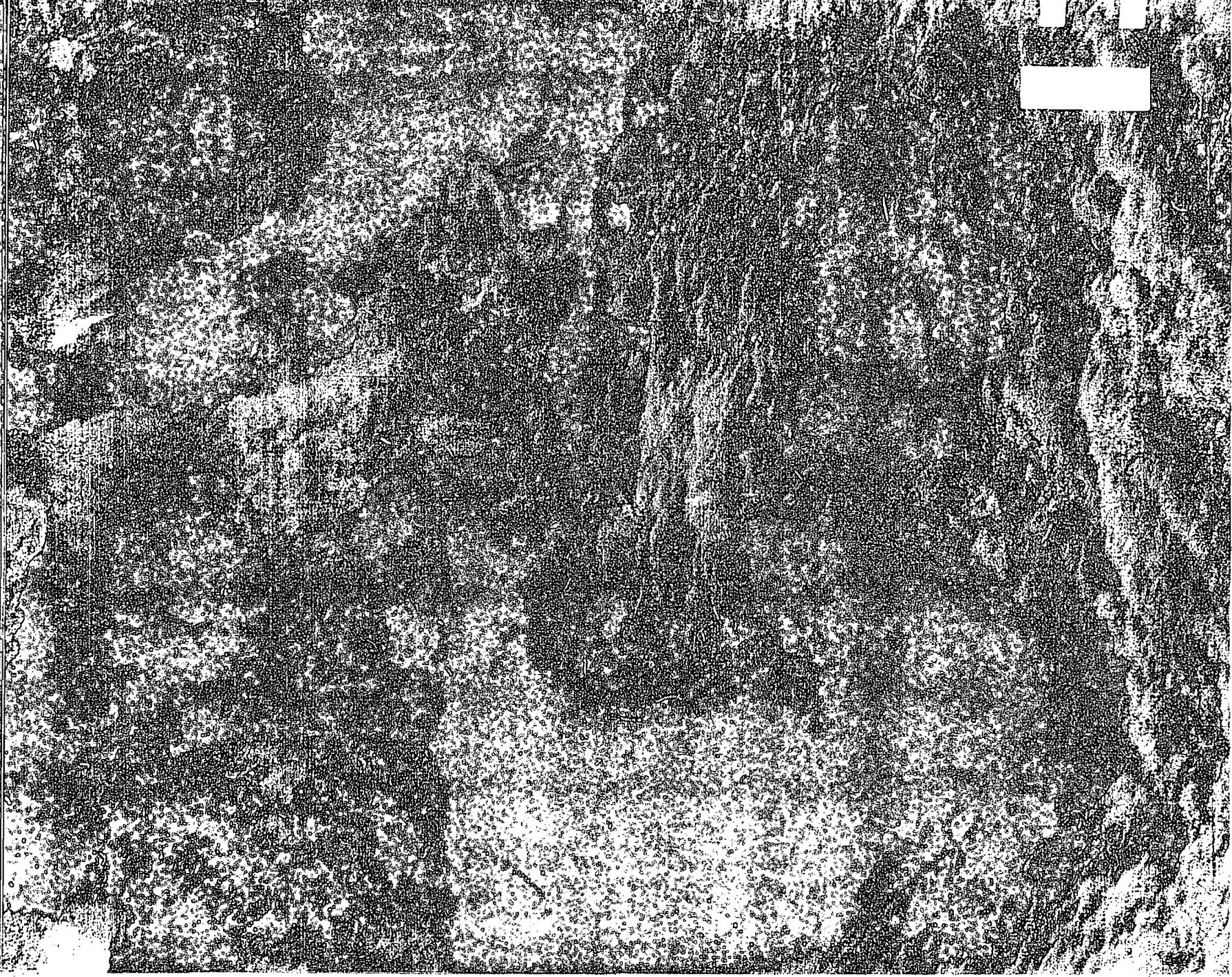
SEM/EPHOTO MICROGRAPHS

P-4975a Northern Cross

100X Overall, illustrating rock fabric after acid dissolution.



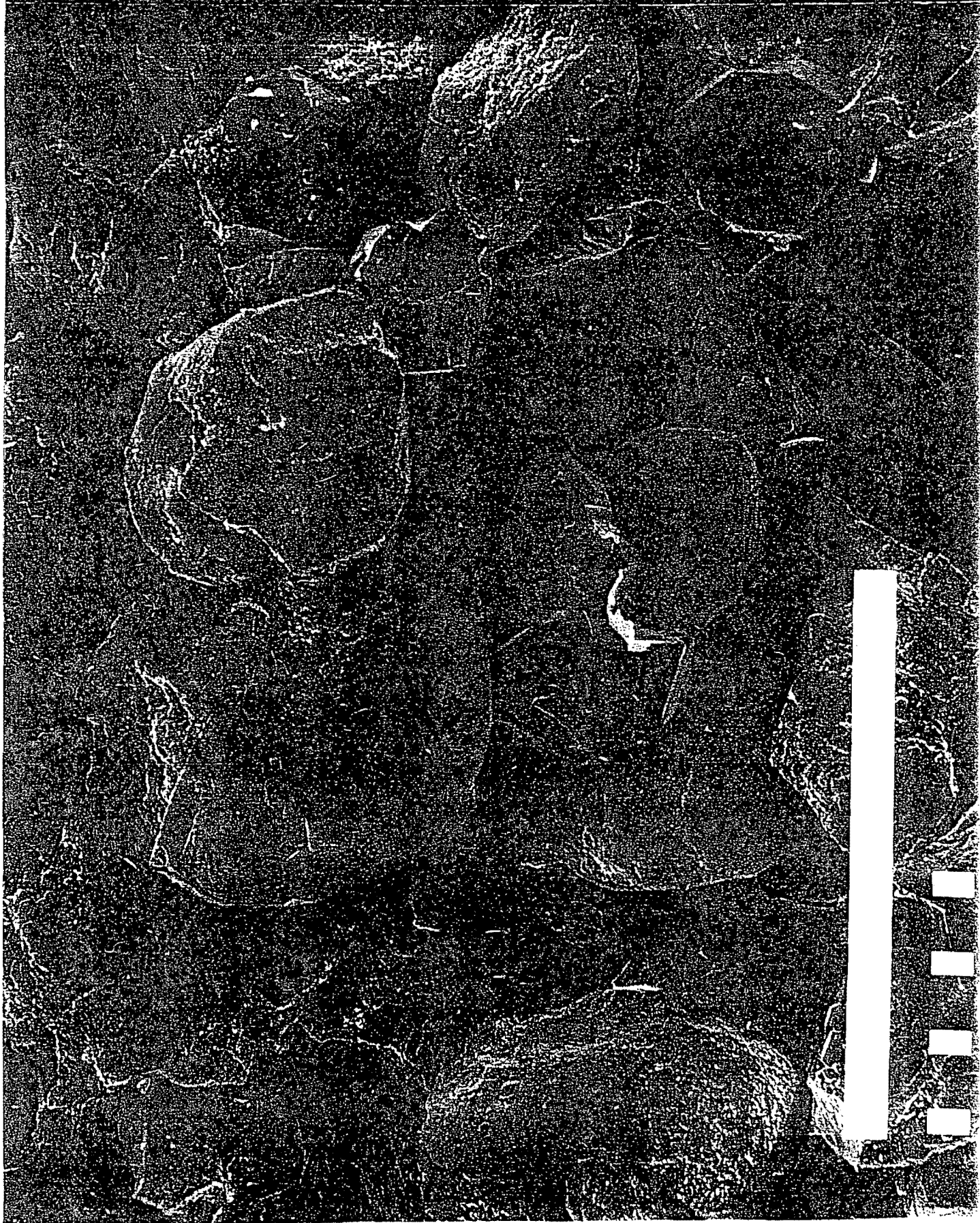
P-4975a Northern Cross
1000X Pore Area illustrating acid dissolution



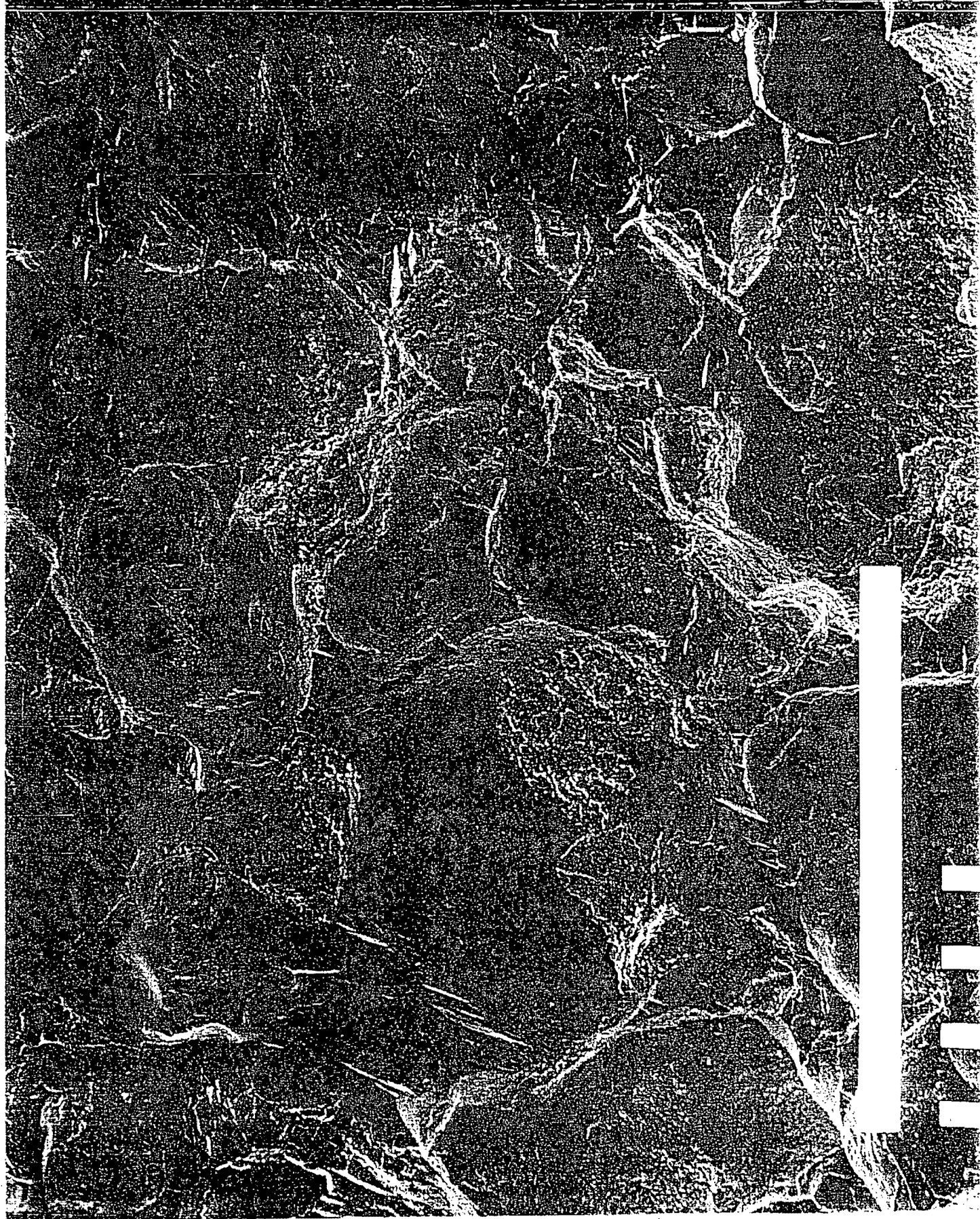
171

p-4975h Northern Cross

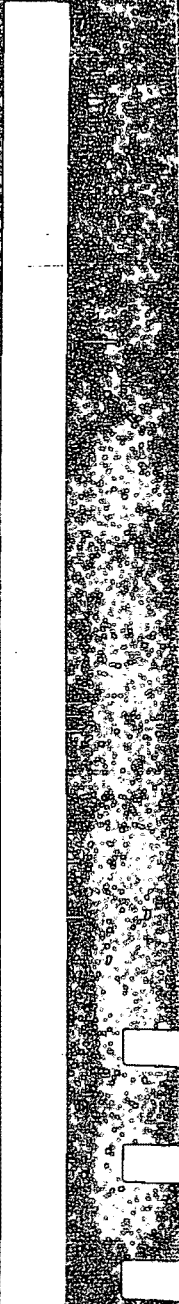
45X Overall, illustrating 'open' area.



p-4975h Northern Cross
45X Overall, illustrating 'infill' area.



p-4975lt. Northern Cross
700X Ca-rich Feldspars in pore area.



p-4975h Northern Cross
1000X Ca-rich Feldspars



p-4975lt Northern Cross
30X Overall, illustrating rock fabric.



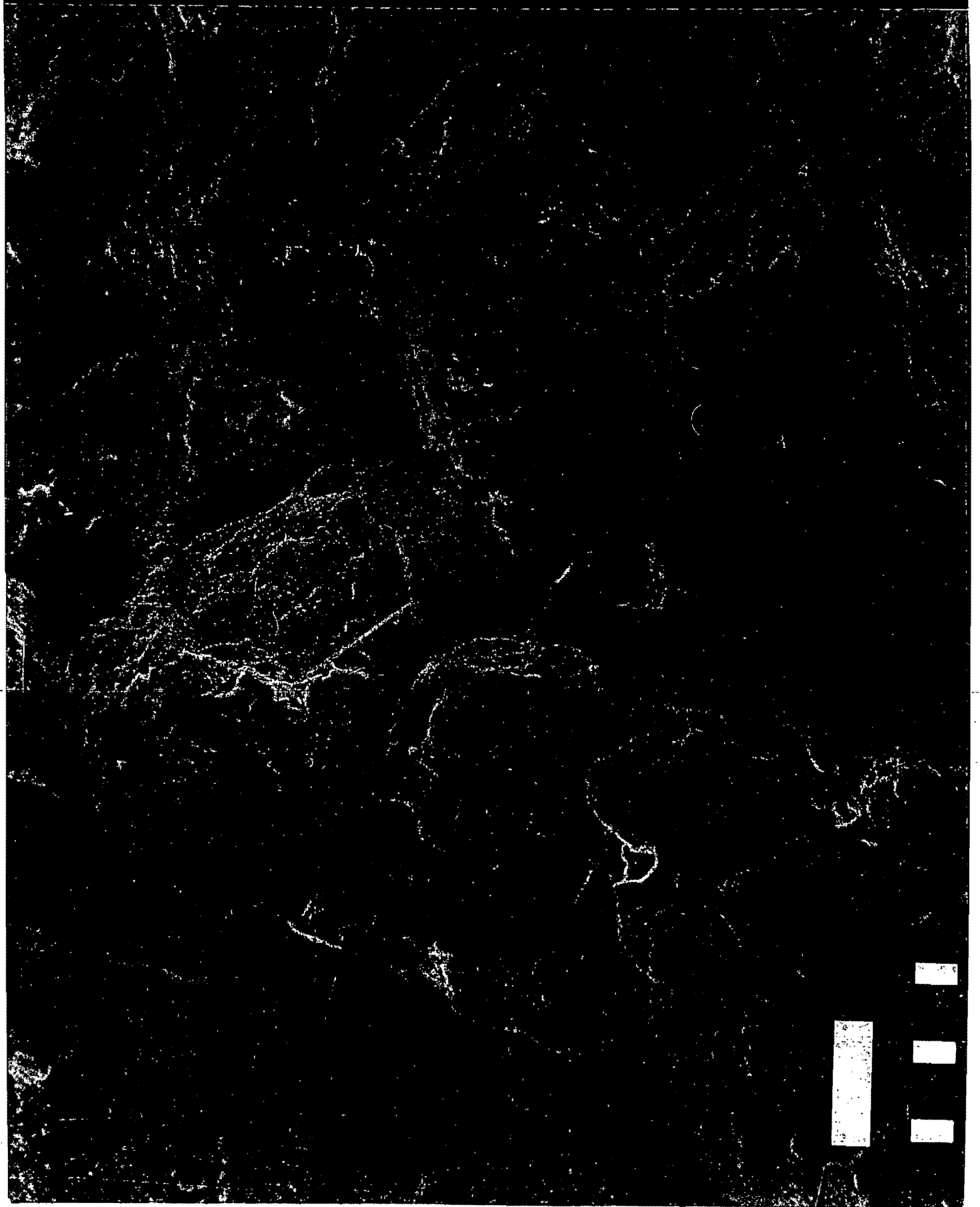
S.E.M. PHOTOMICROGRAPHS

98-096 Lower Chance J-19 4456'

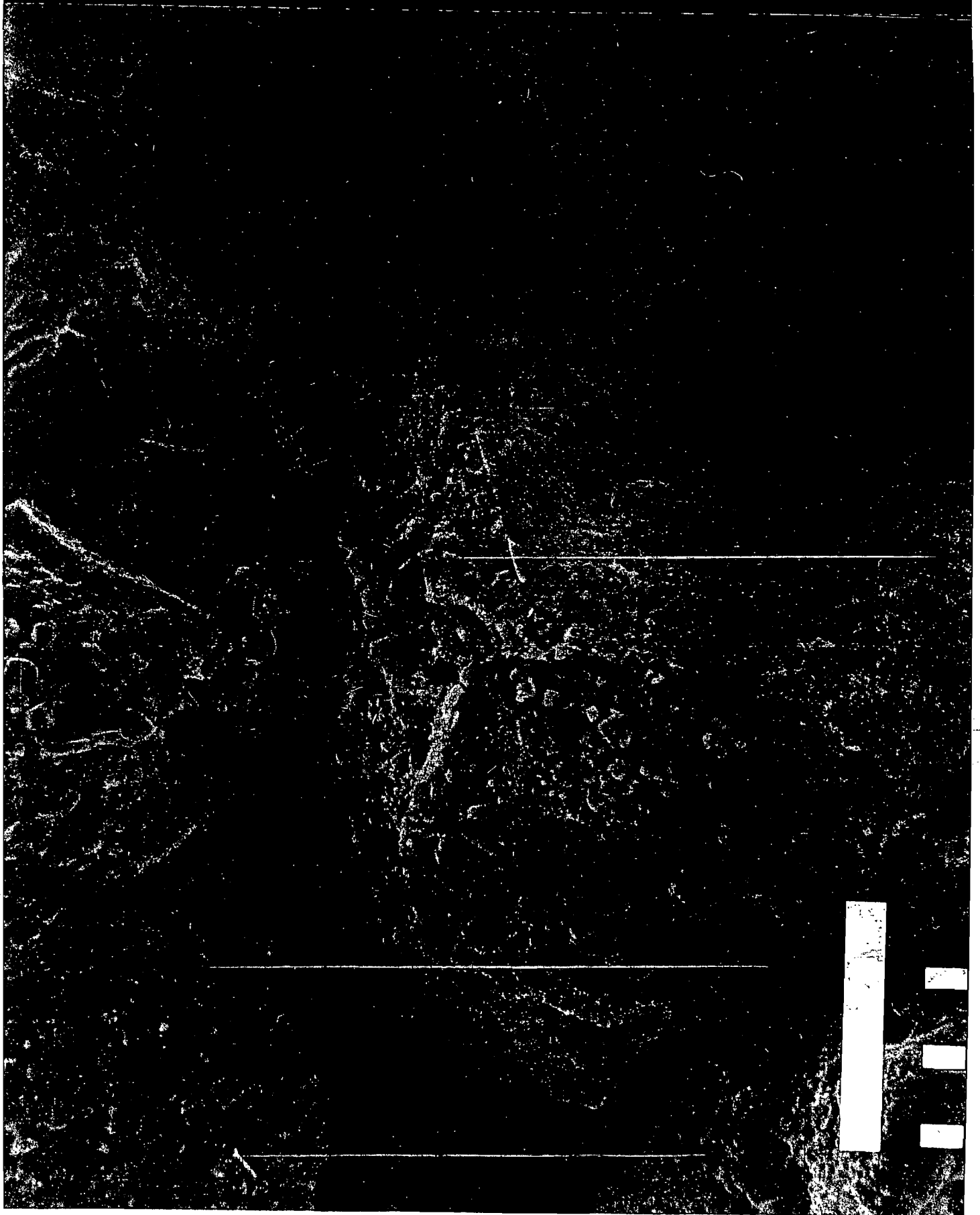
45X Overall, illustrating rock fabric.



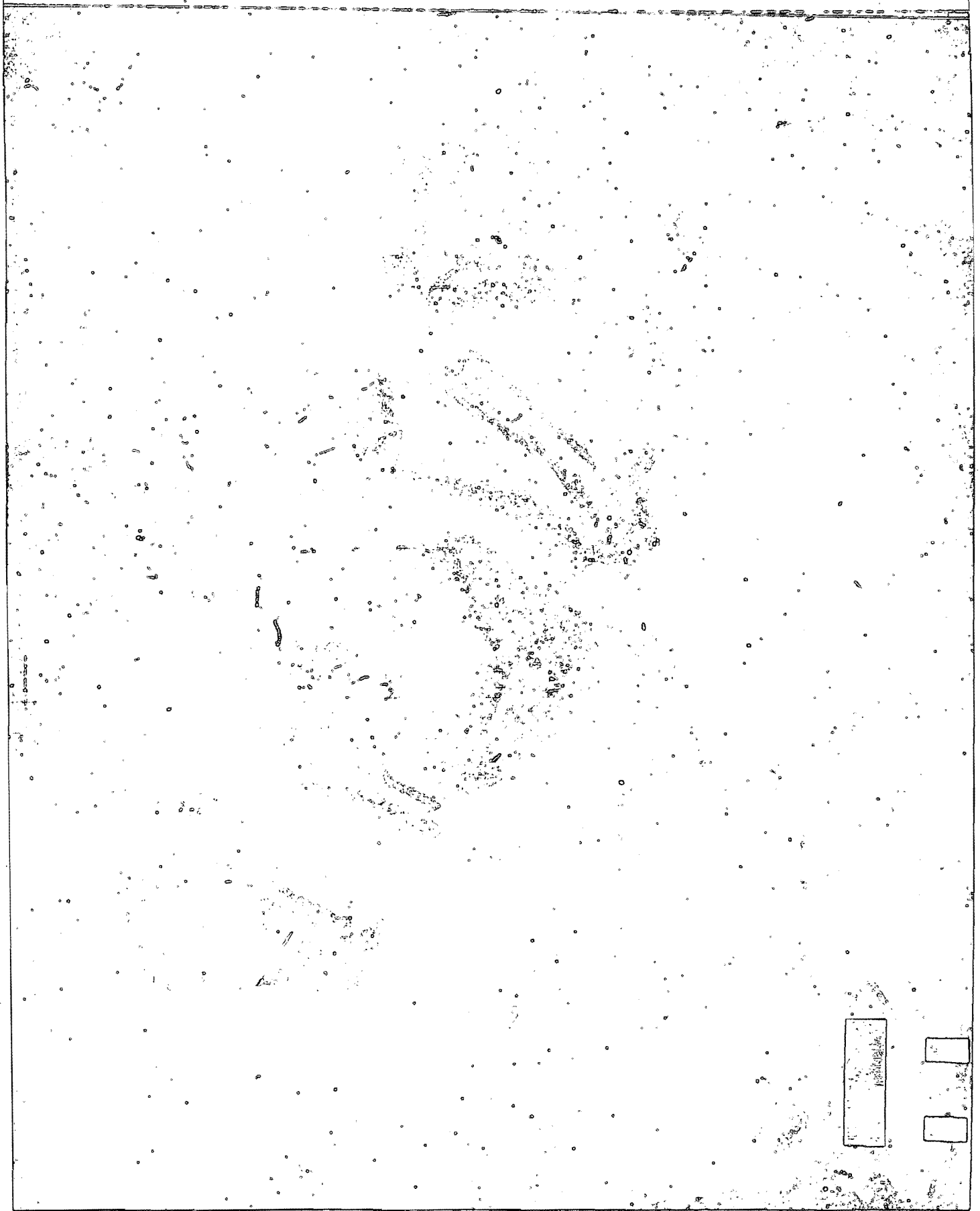
98-096 Lower Chance J-19 4456'
100X Overall, illustrating rock fabric.



98-096 Lower Chance J-19 4456'
200X Overall, illustrating rock fabric.



98-096 Lower Chance J-19 4456'
1000X Calcium alumina-silicate (Margarite ?)



1000X

