

98/02/10 98-096

Formation:

Lower Chance

Area:

Yukon J-19

Location:

CORE ANALYSIS

NORTHERN CROSS

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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		
		111111	(μm)
		0.0001	0.1 (1000 Å)
		0.001	1.0
		0.01	10.0
	+0	0.1	100.0
		1.0	1000.0

## Determining Magnification

leasure 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

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

## Determining Particle Size

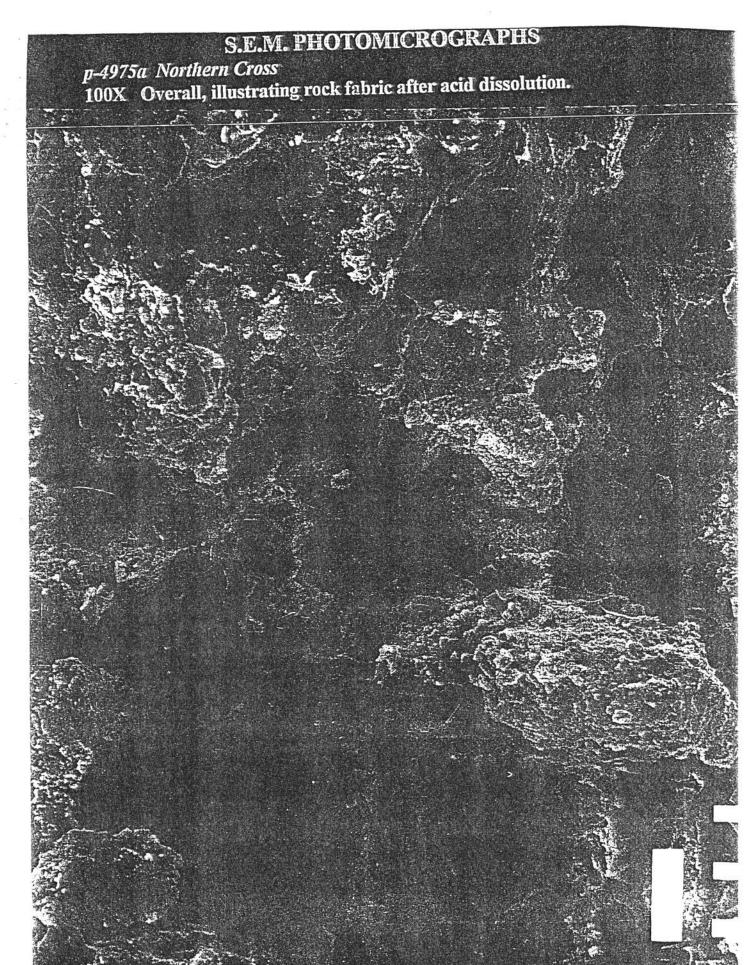
Measure the item of interest from the photomicrograph in millimetres. Next, measure the marker bar length from the photomicrograph in millimetres. Divide the item length by the marker bar length and multiply the result by the corresponding marker bar length in millimetres from the table above.

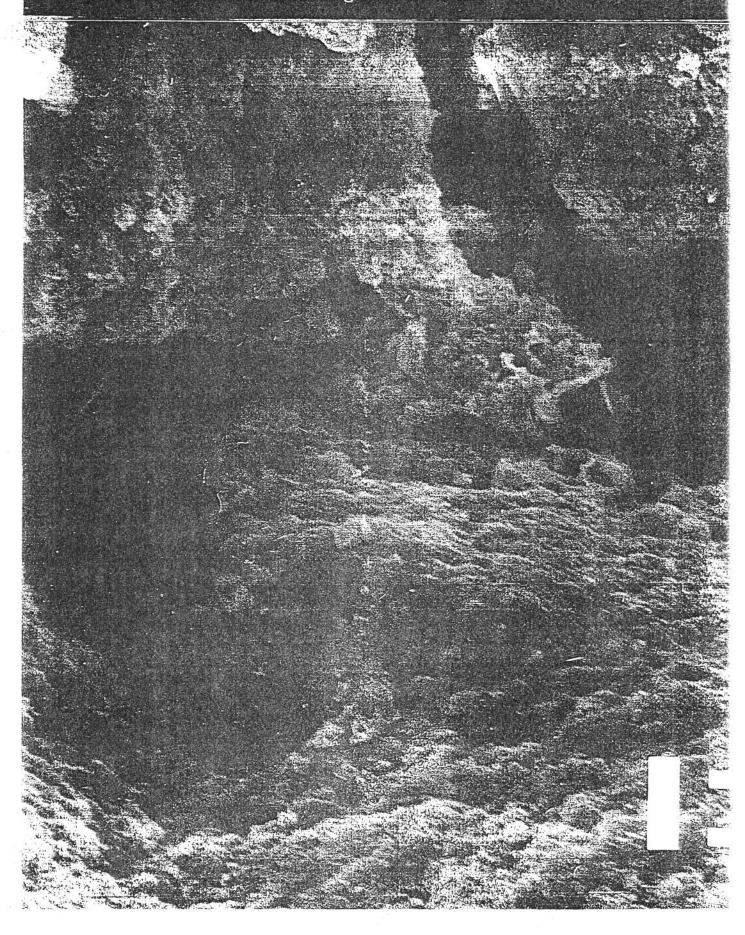
Item length from photomicrograph = 8 mm

Marker bar length from photomicrograph = 11 mm, 2 dot coding

Marker bar length from above table with corresponding 2 dot coding = 0.01 mm

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

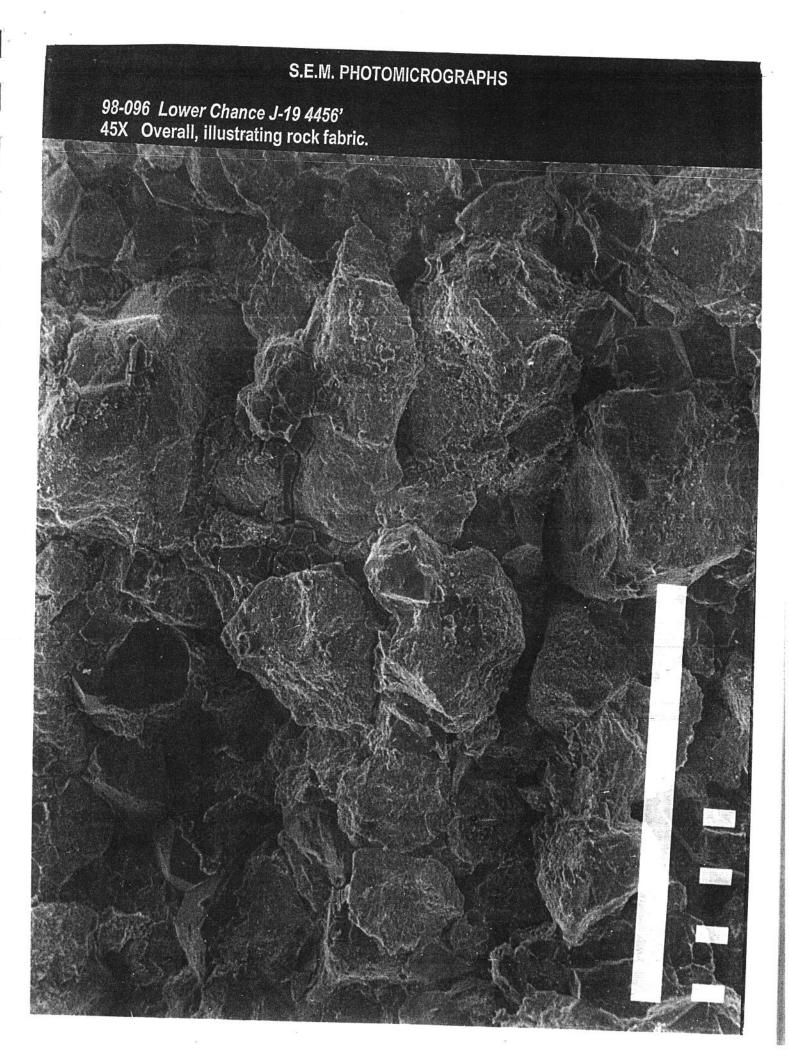




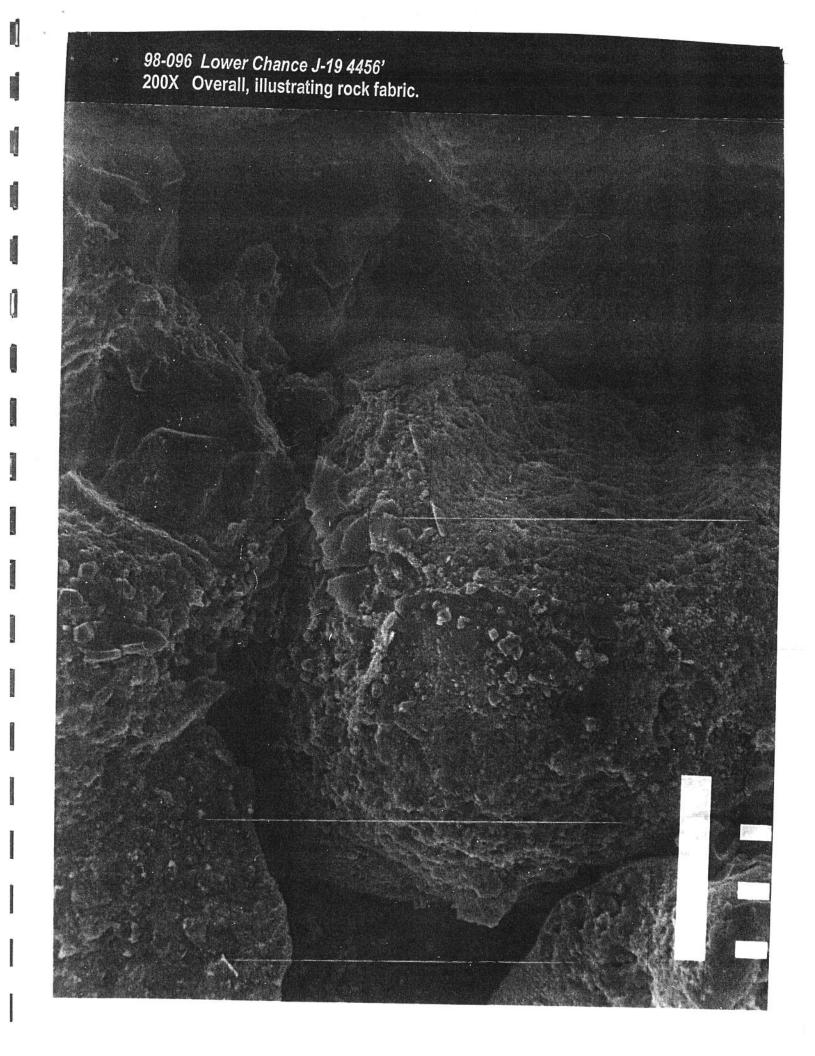
p-4975h Northern Cross
45X Overall, illustrating 'open' area.



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



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



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