

CATEGORY 50

Bulliform Cells

(Poaceae)

50I. angular

50IA. quadrilateral

- a. long edges smooth; short edges serrated or sinuous
(opposite side appears as line in interior of cell)
 1. highly serrated
 2. slightly serrated
 3. one short edge smooth; one serrated
 4. edges moderately sinuous; square; blocky
 5. edges moderately sinuous; rectangular; blocky
- b. long edges serrated; edges smooth (opposite side appears as line in interior of cell)
 1. regular appearance
 2. blocky irregular appearance
- c. long; blocky; may have one sinuous edge
- d. sinuous edges; wrinkled, uneven surface
- e. rounded; sinuous edges
 1. regular
 2. blocky; irregular
- f. one rounded convex edge; two concave edges; one straight edge
- g. one rounded convex edge; all others straight

50IB. pentagonal

- a. two concave edges (making three spikes)
- b. no concave edges

50IC. hexagonal

50ID. seven-sided

50IE. many edges and angles

50IF. triangular

- a. apex rounded
- b. angular; blocky

50II. rounded

50IIA. bean or leans shape

50IIB. robust, almost spheroidal

50III. flared

50IIIA. "keystone"

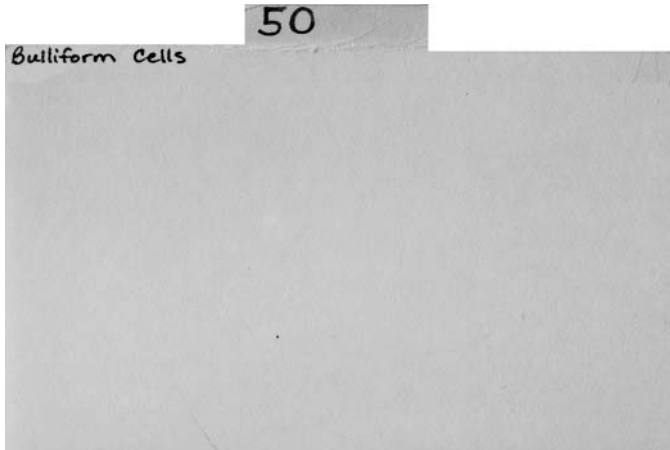
- a. slightly flared
 1. somewhat rounded
 2. angular
- b. moderately flared
 1. incurving sides
 2. sides not incurving
 3. angular
 00. regular size
 01. small size

c. widely flared

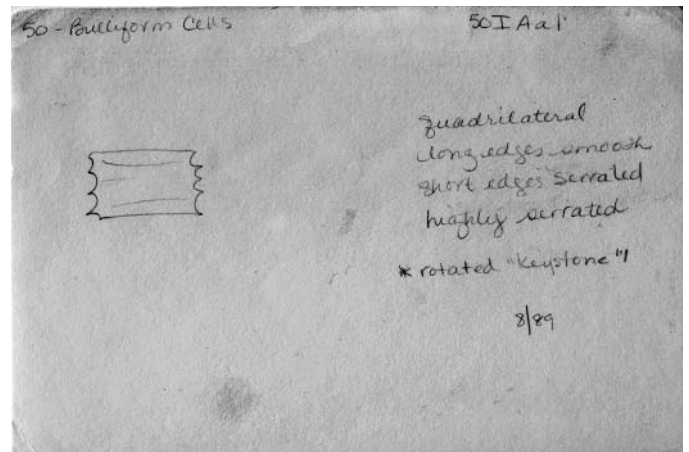
1. wide "top"; symmetrical "base"
2. wide "top"; asymmetrical "base"
3. thin "top"; asymmetrical "base"

50IIIB. flared; not keystone

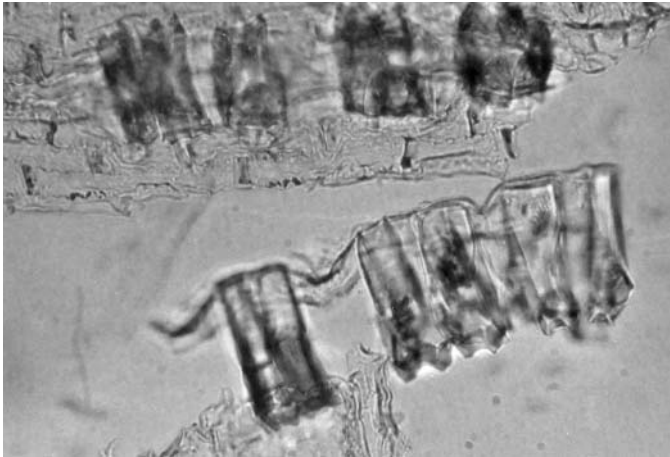
*No card in MU card file



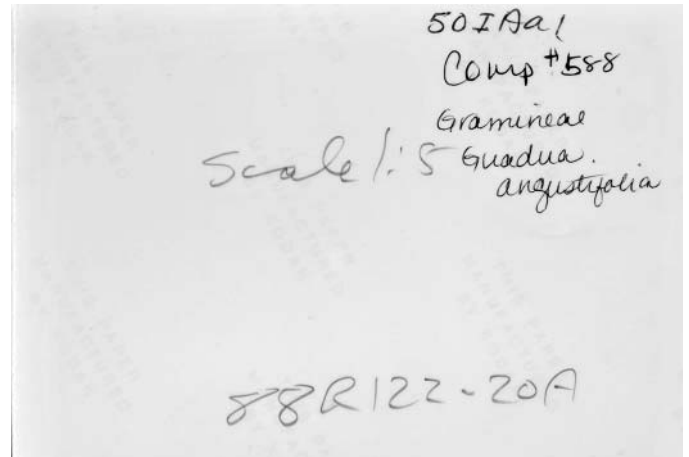
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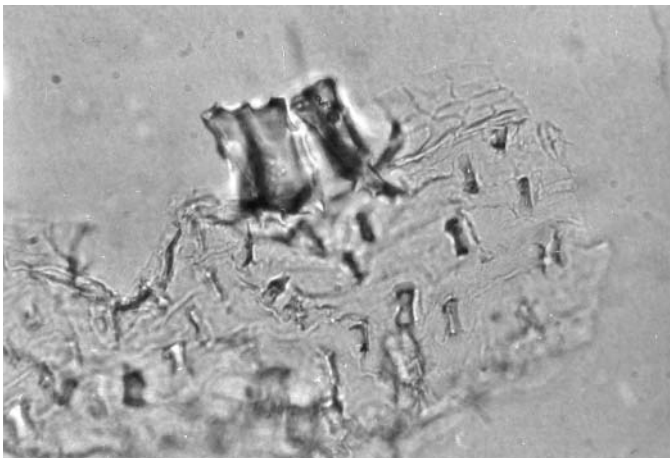
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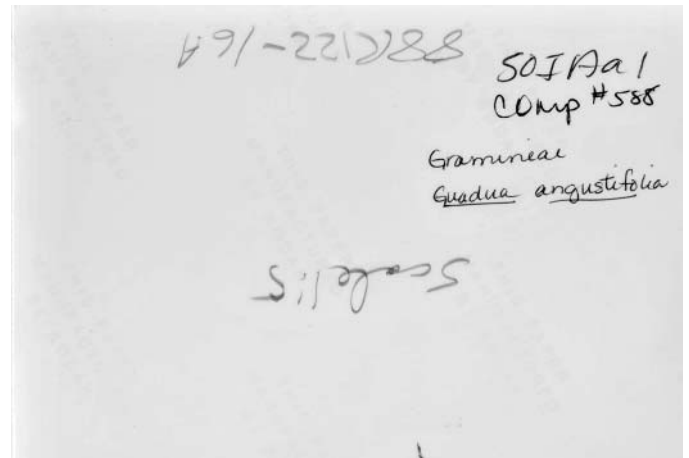
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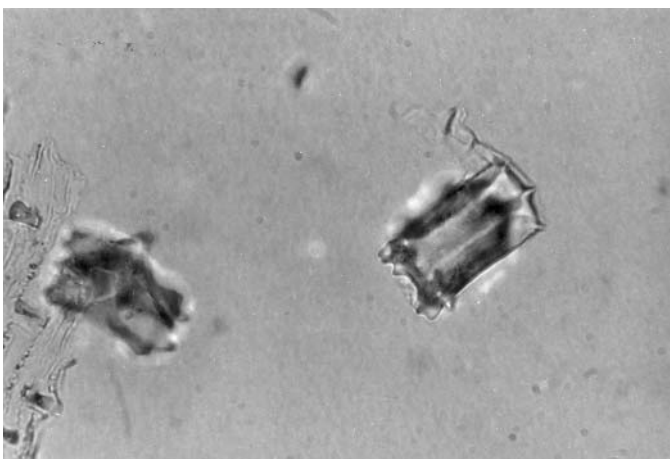
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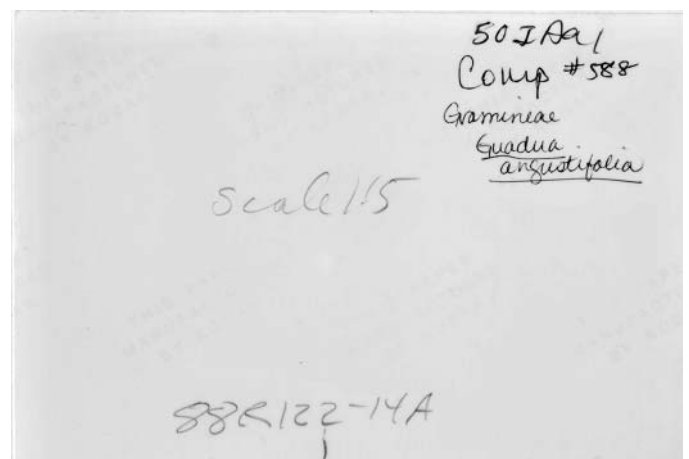
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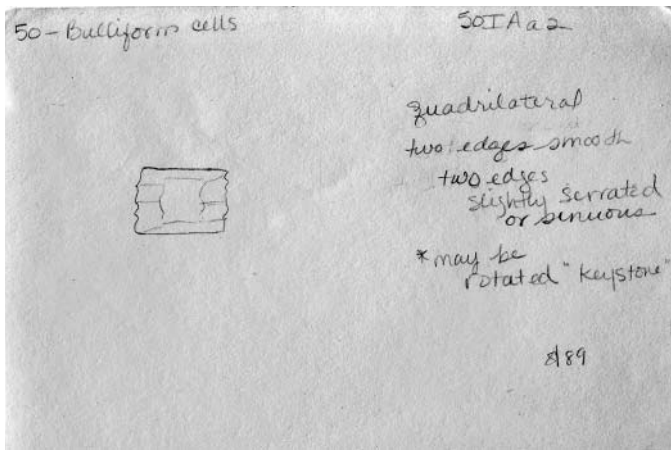
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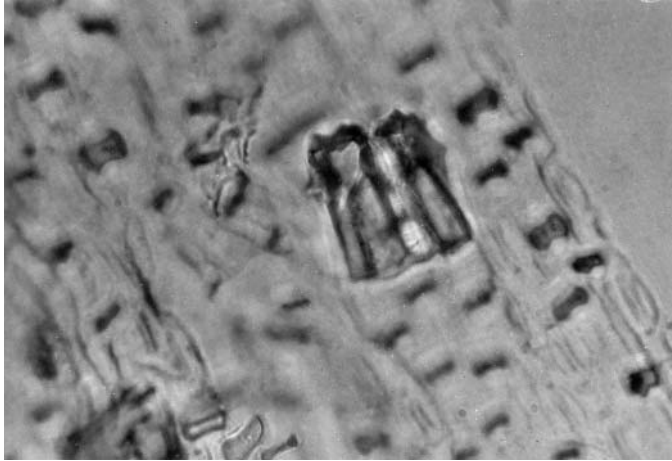
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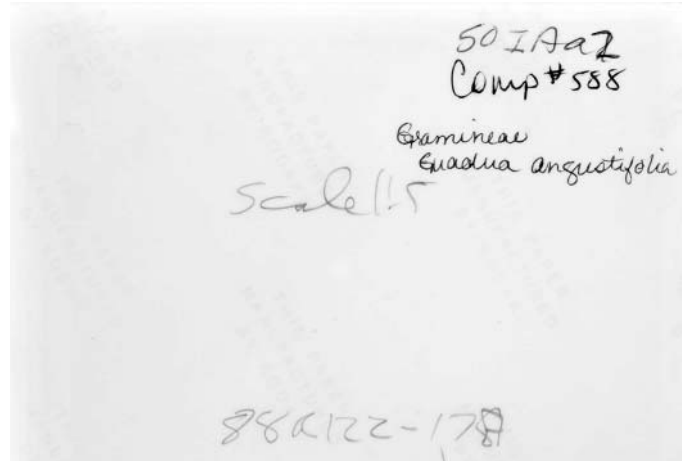
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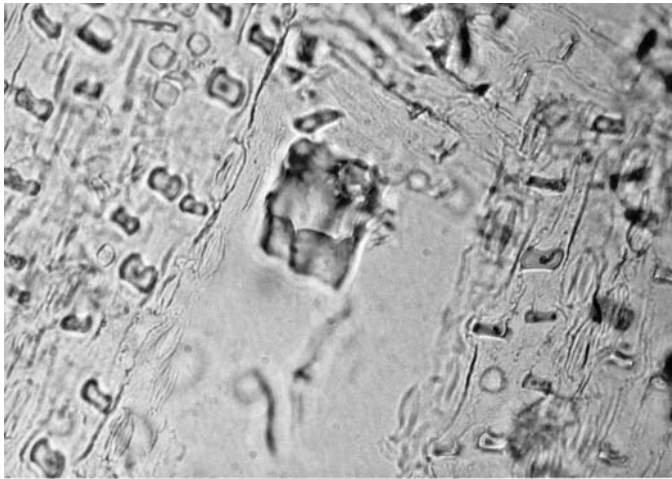
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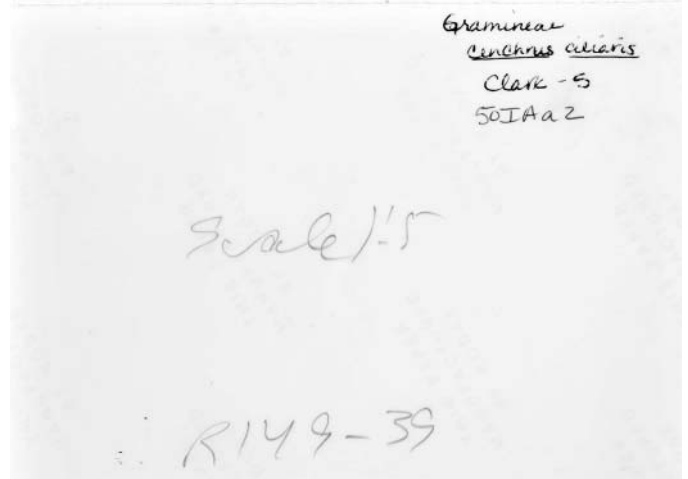
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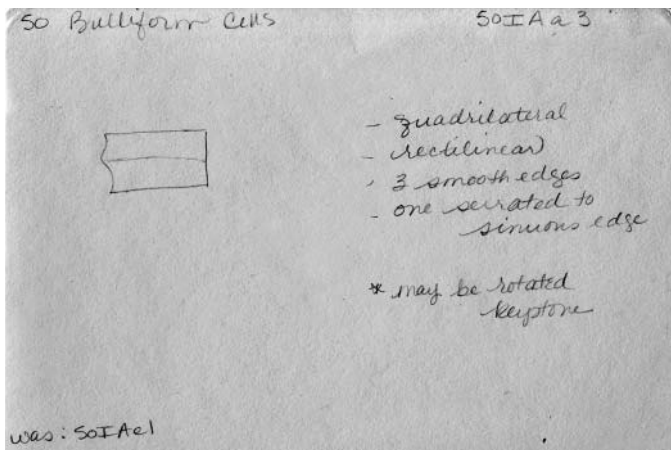
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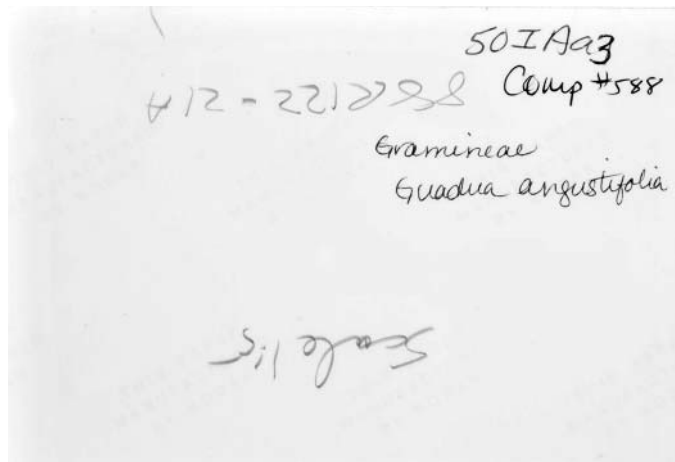
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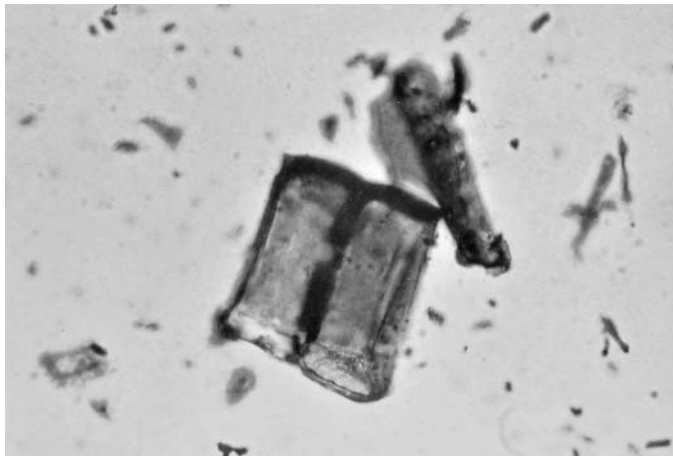
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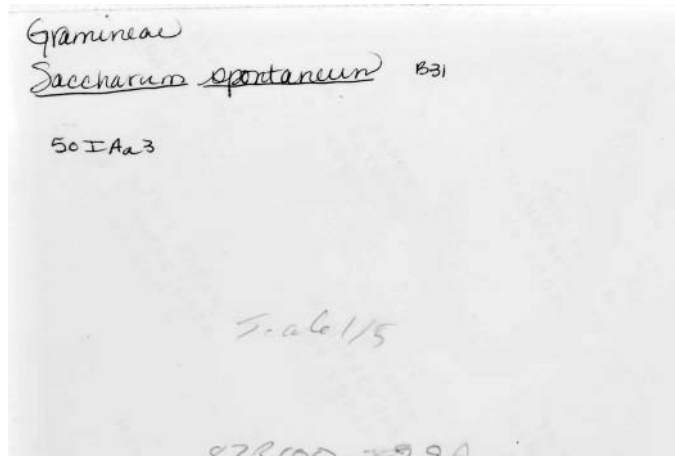
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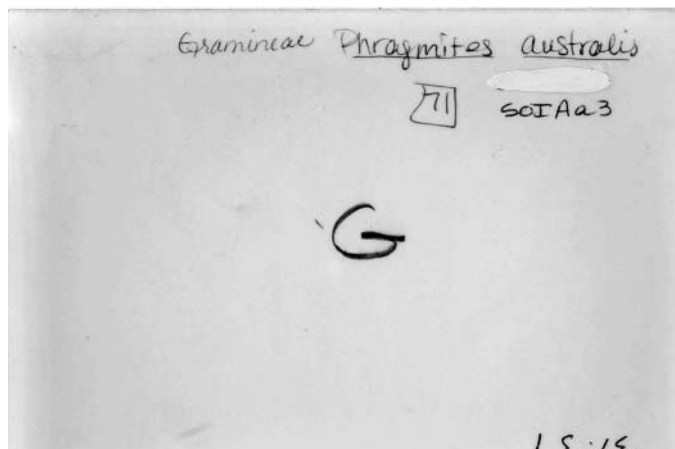
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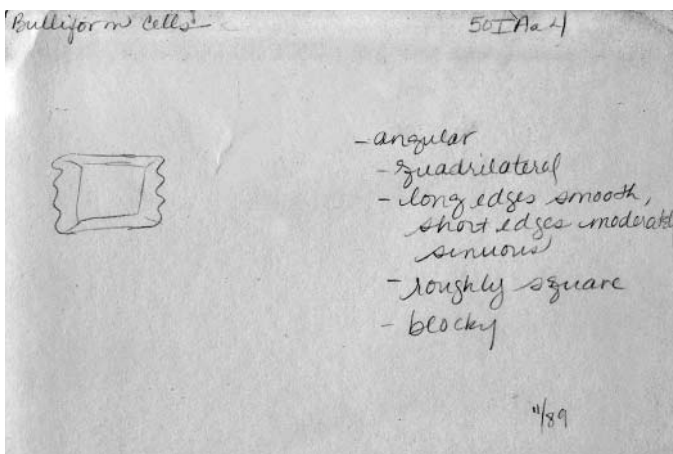
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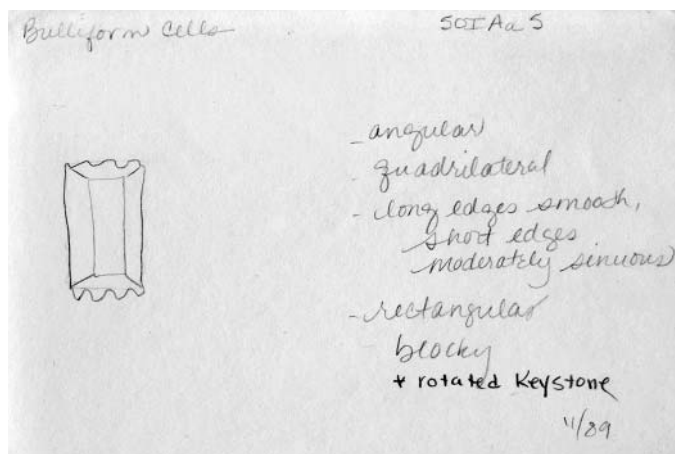
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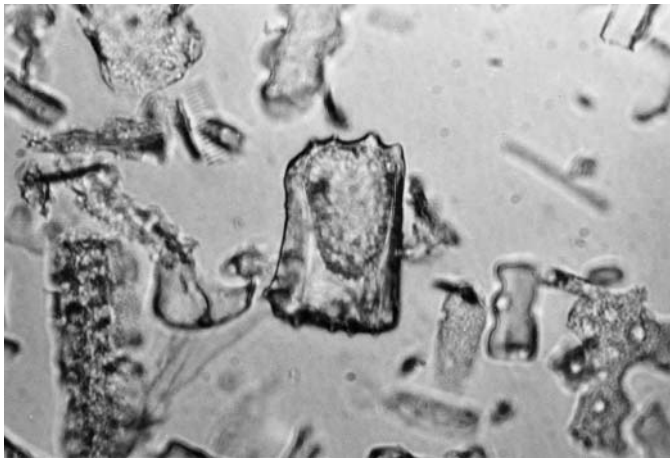
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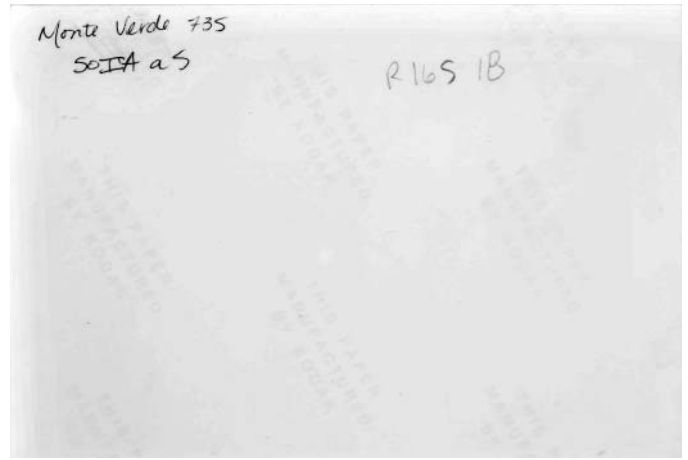
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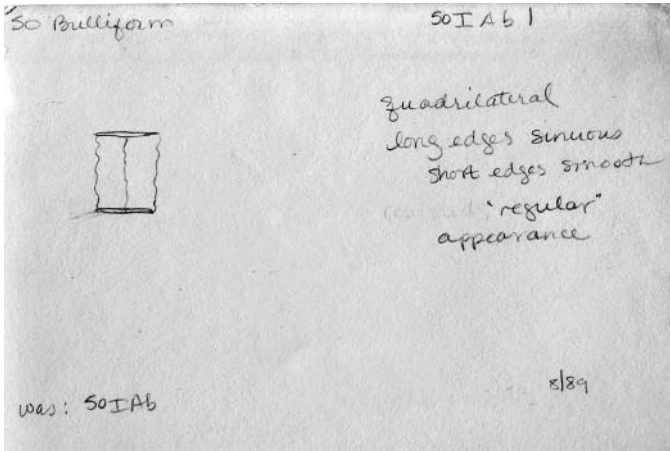
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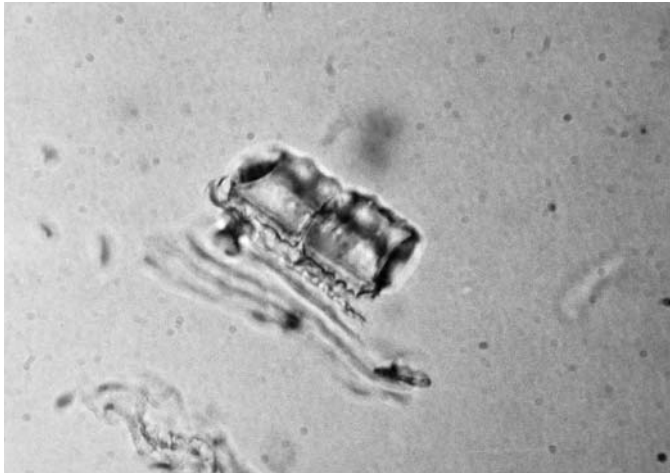
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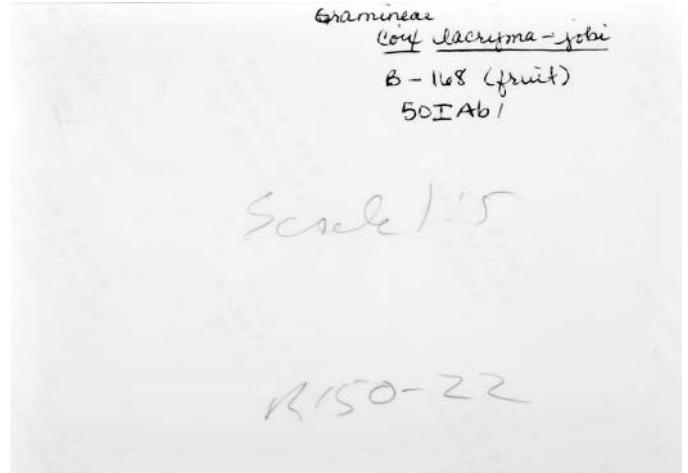
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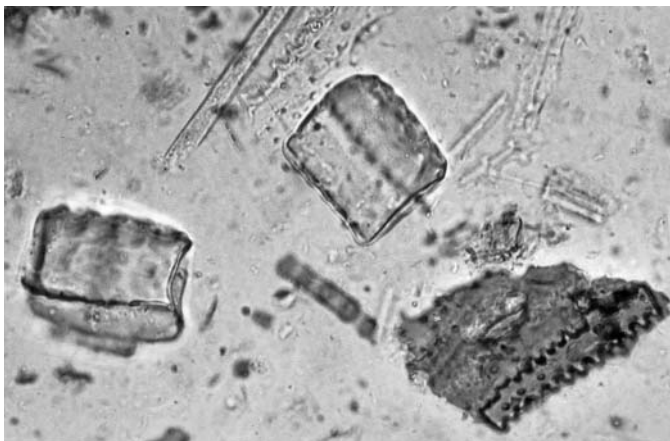
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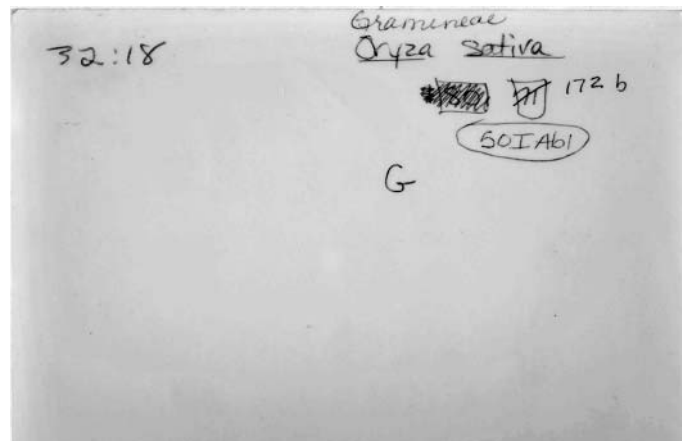
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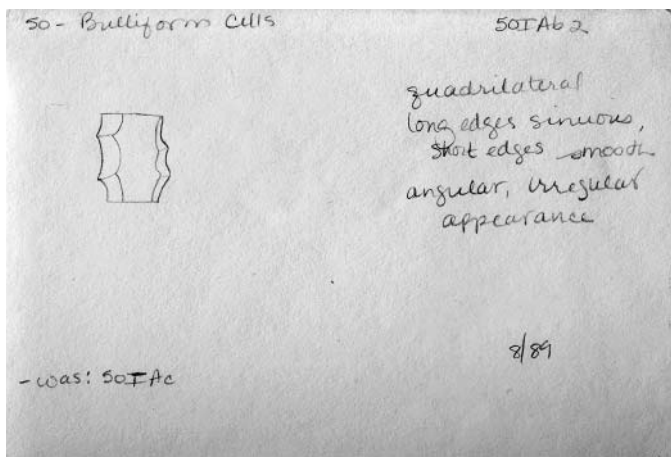
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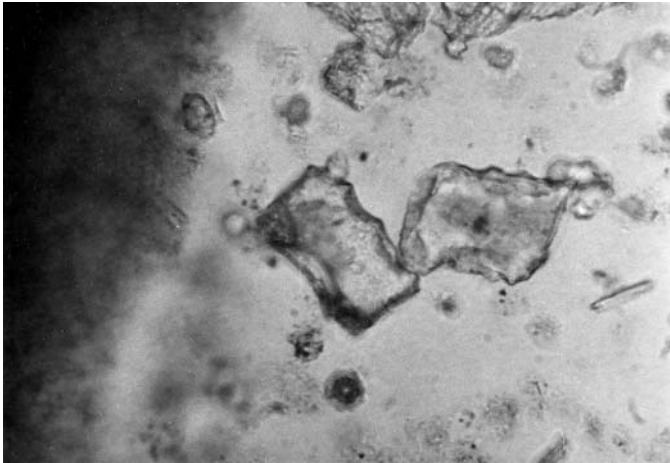
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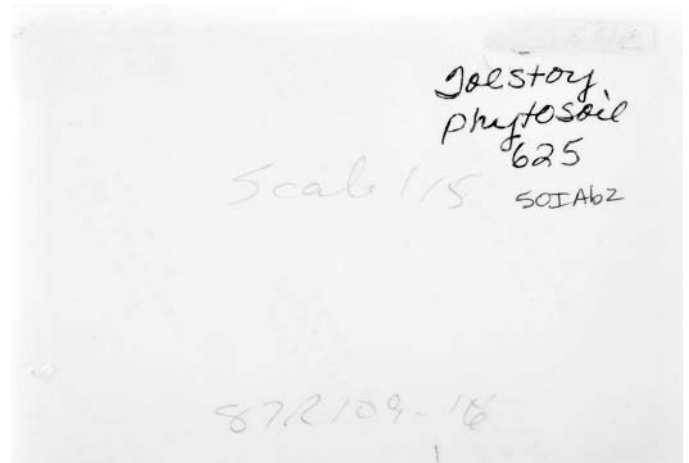
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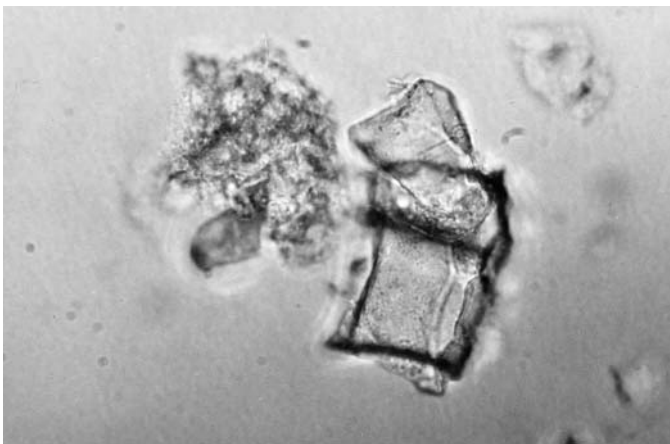
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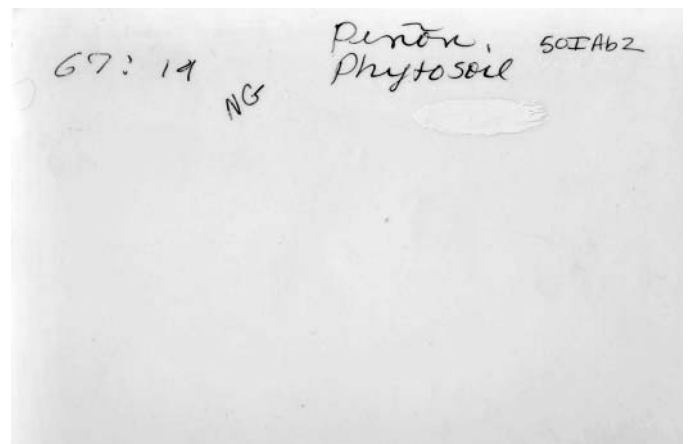
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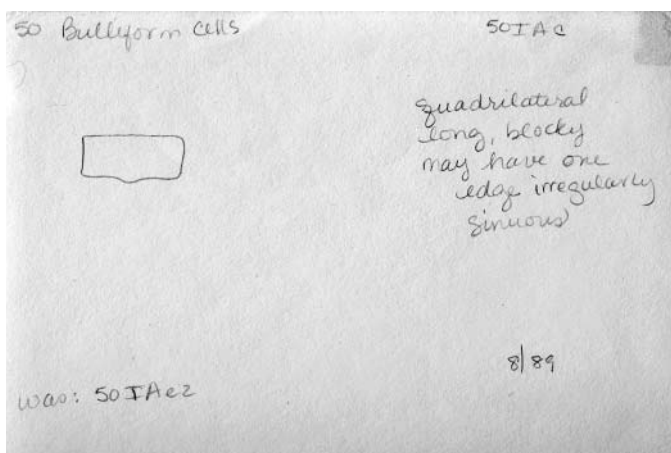
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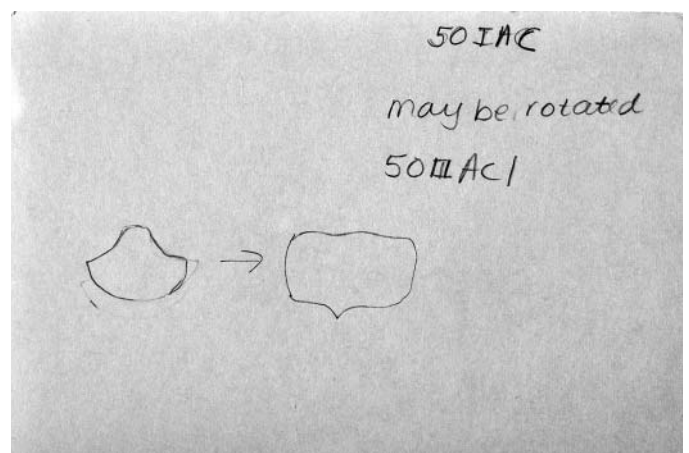
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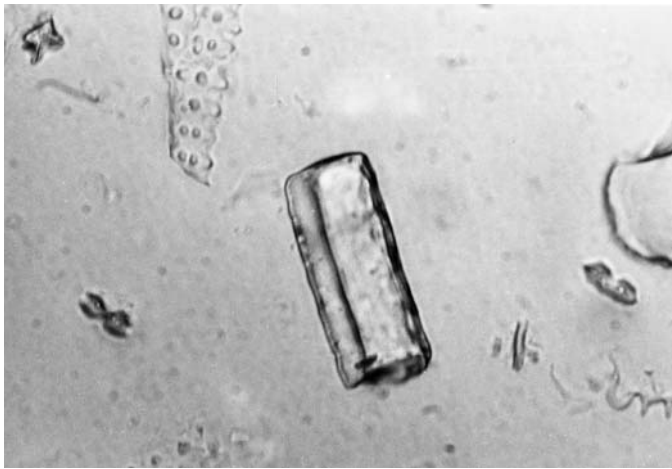
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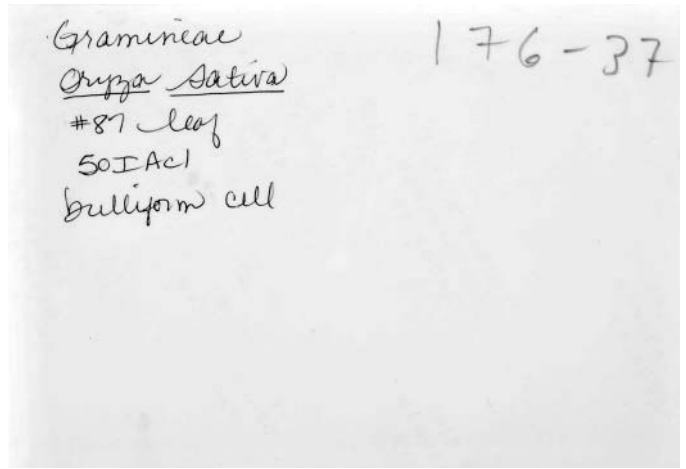
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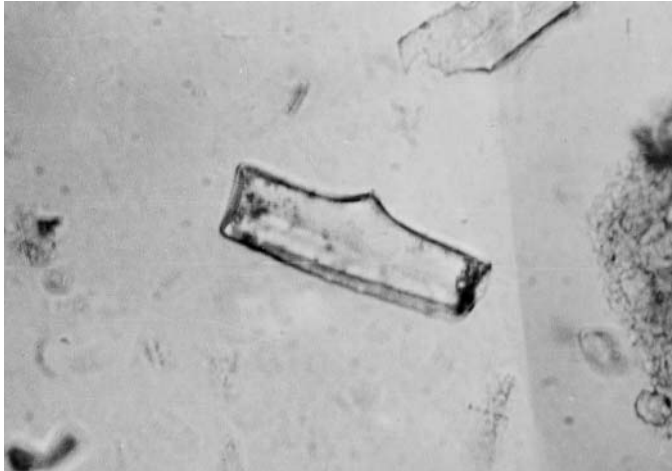
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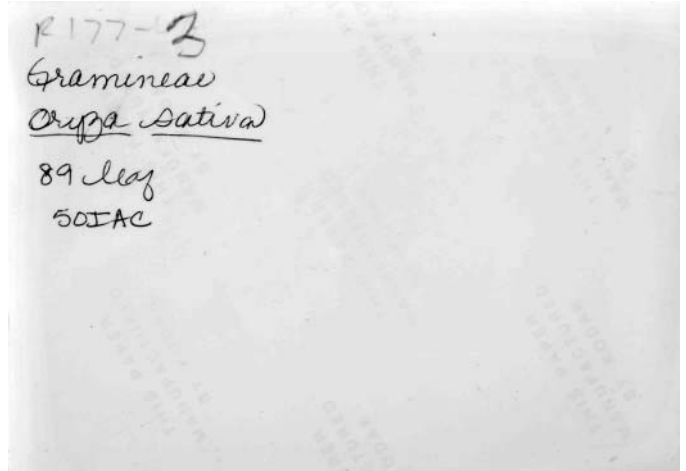
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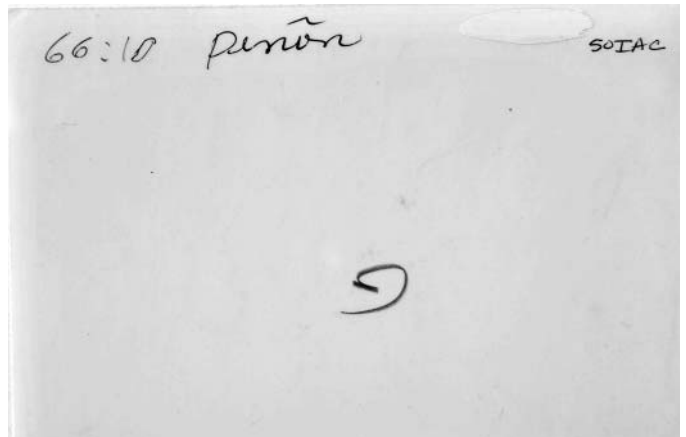
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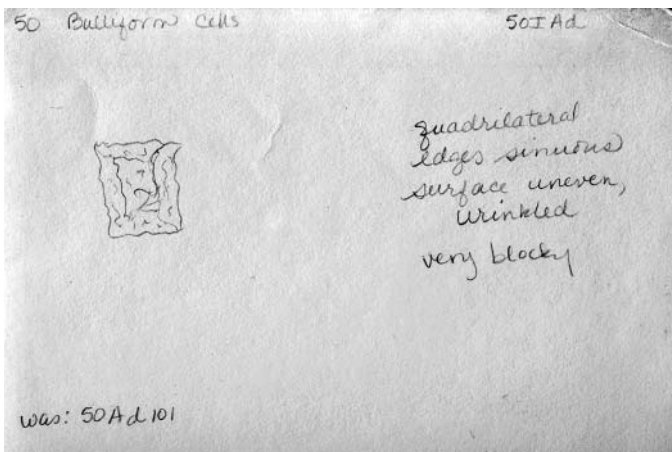
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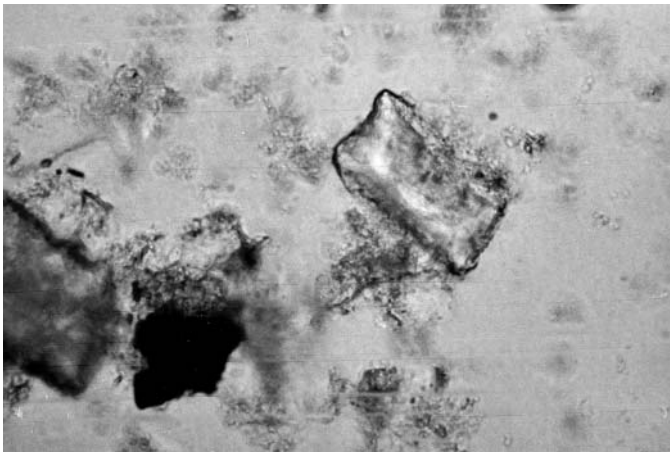
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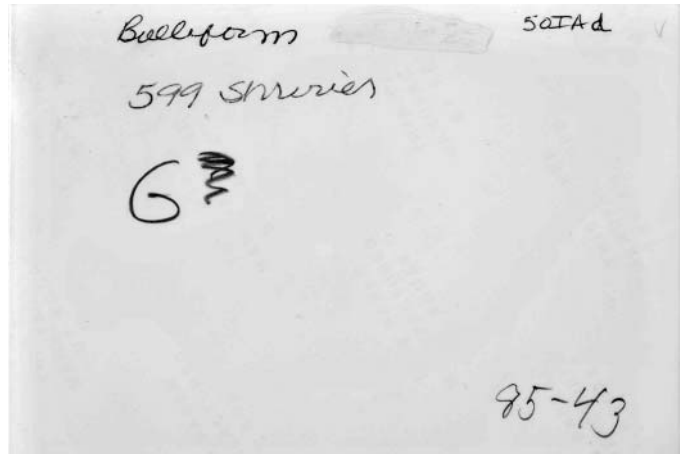
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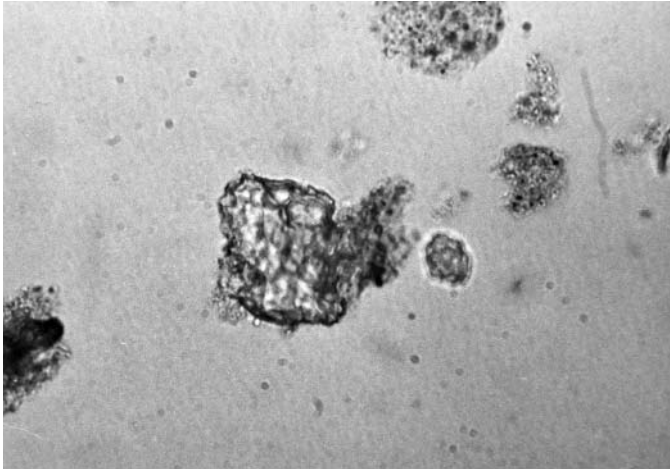
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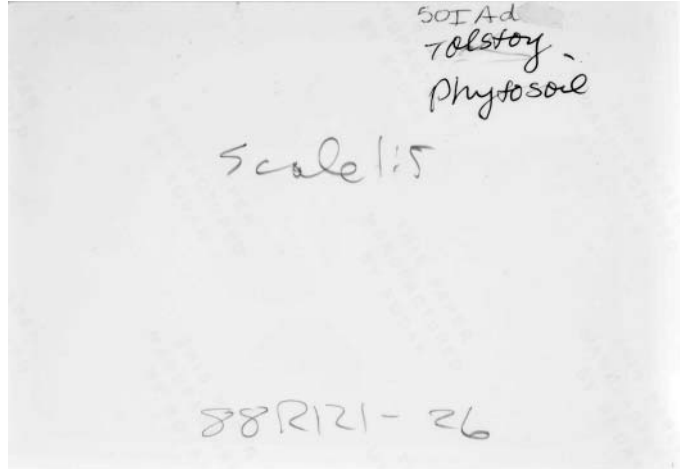
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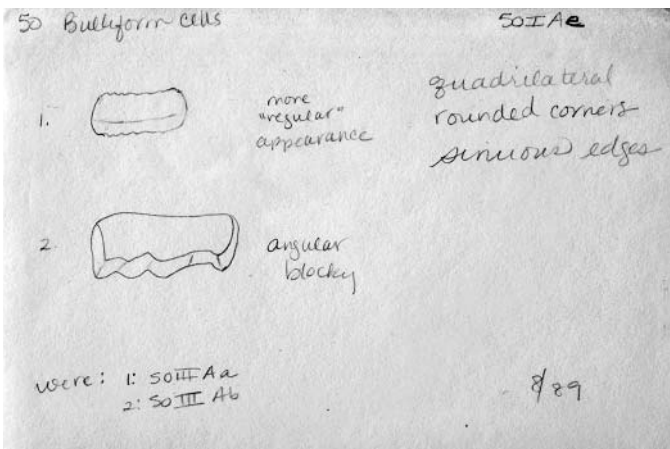
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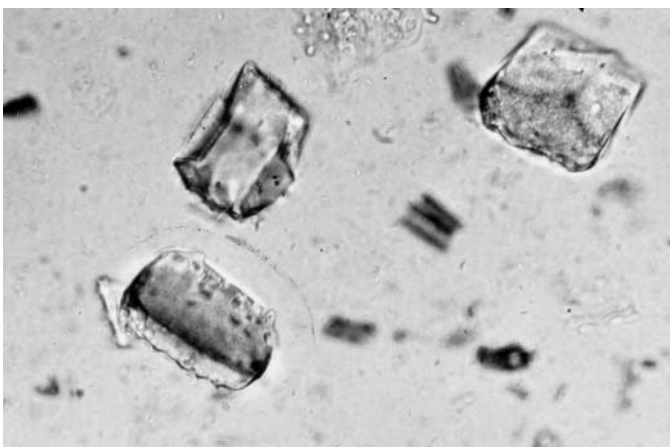
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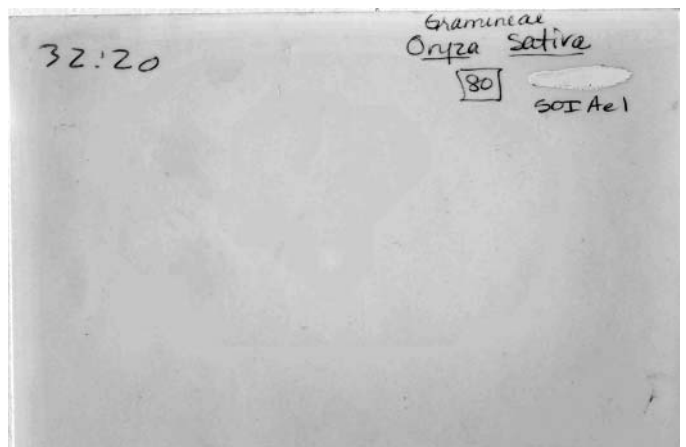
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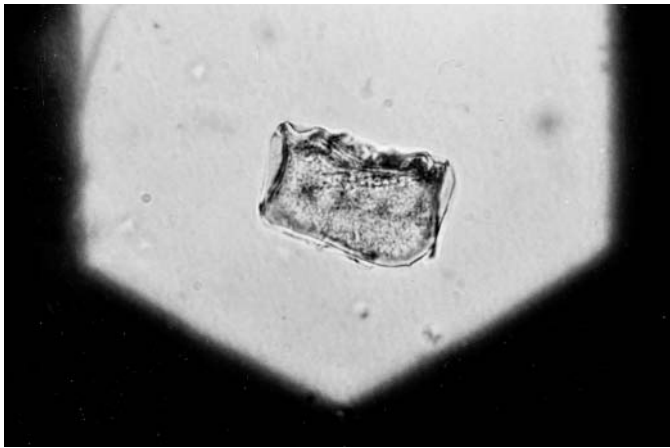
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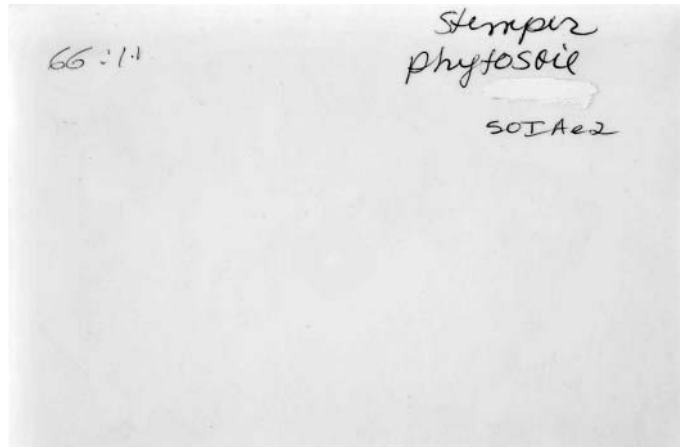
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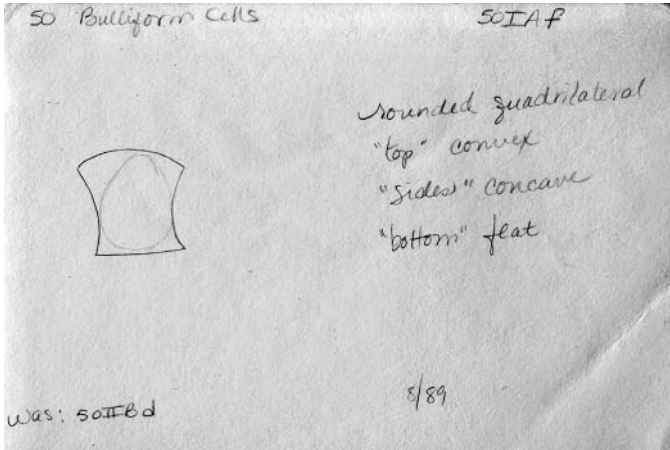
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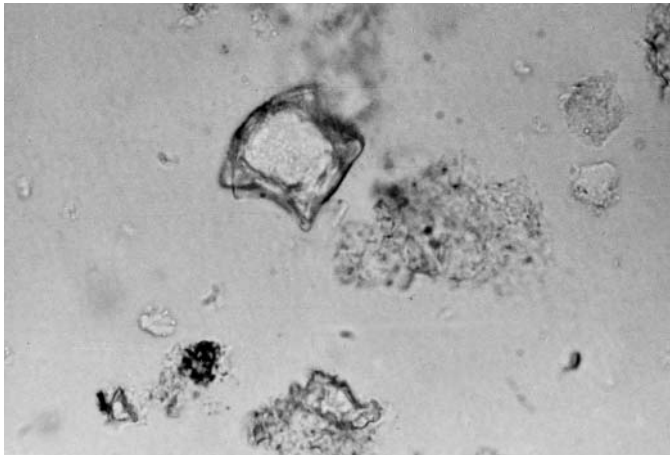
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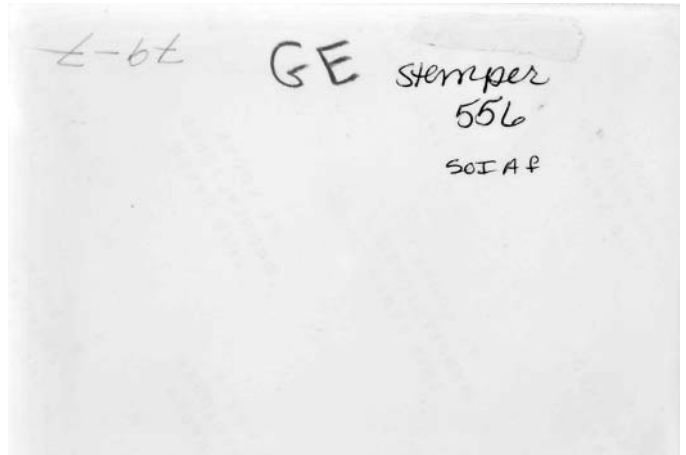
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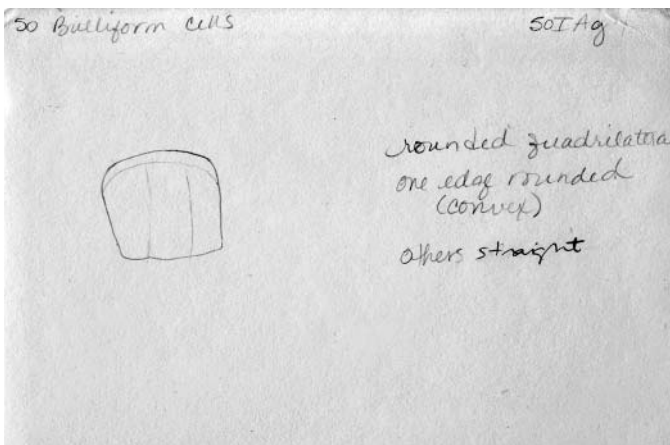
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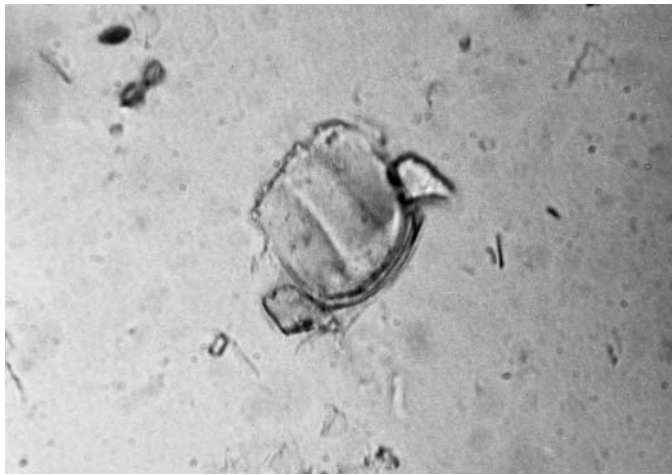
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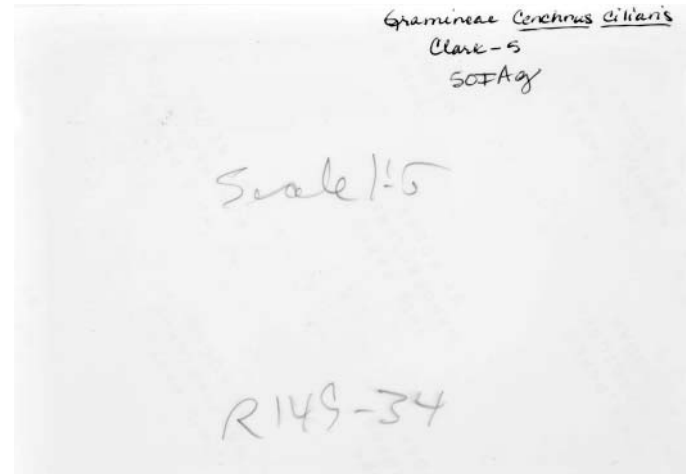
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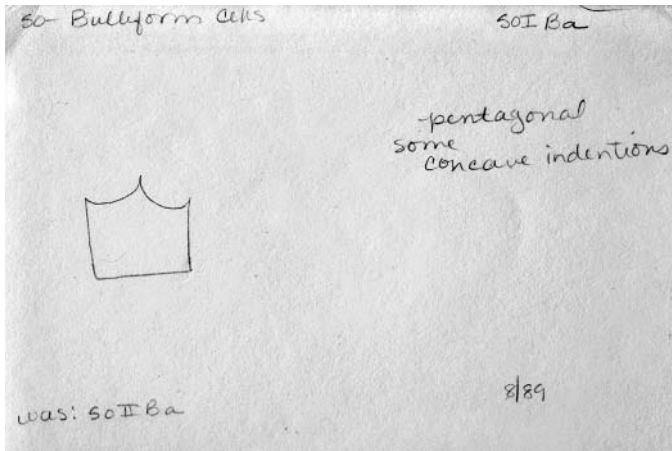
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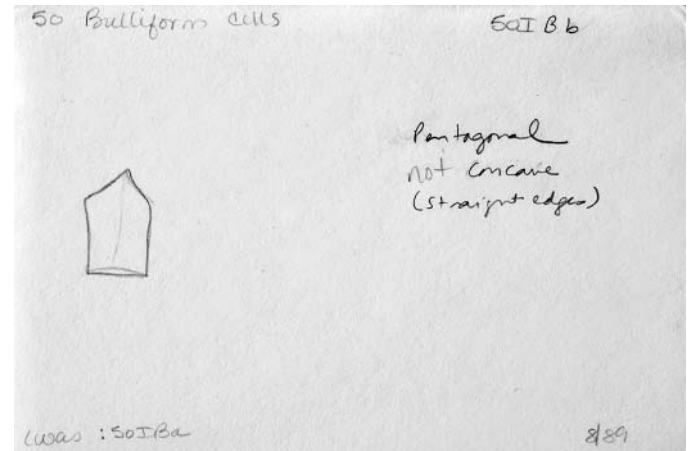
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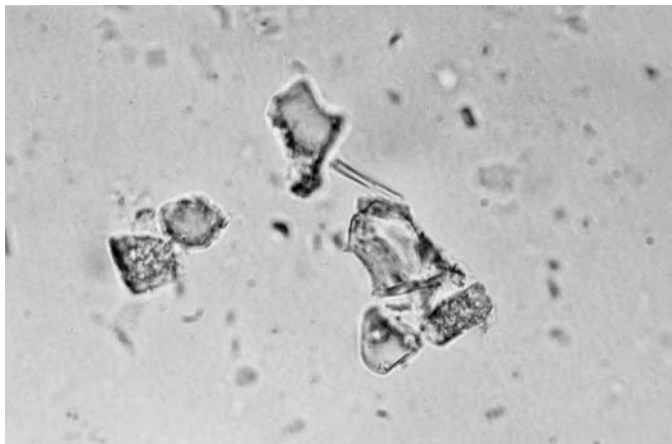
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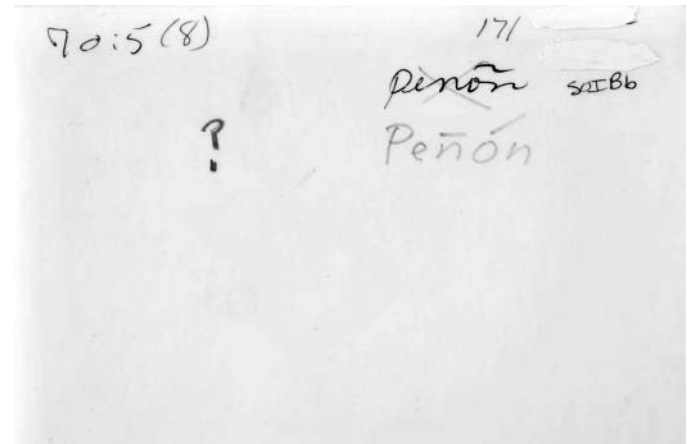
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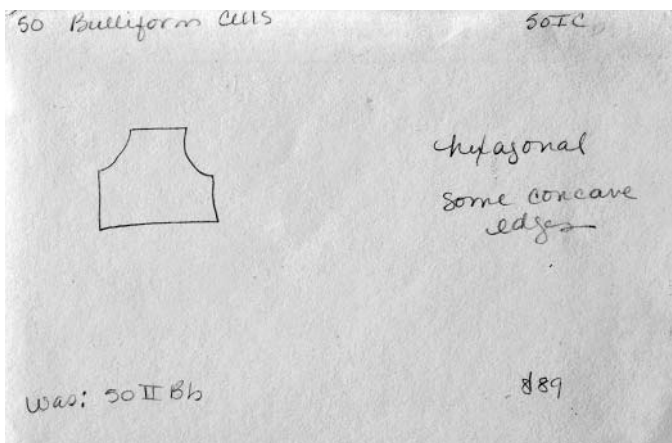
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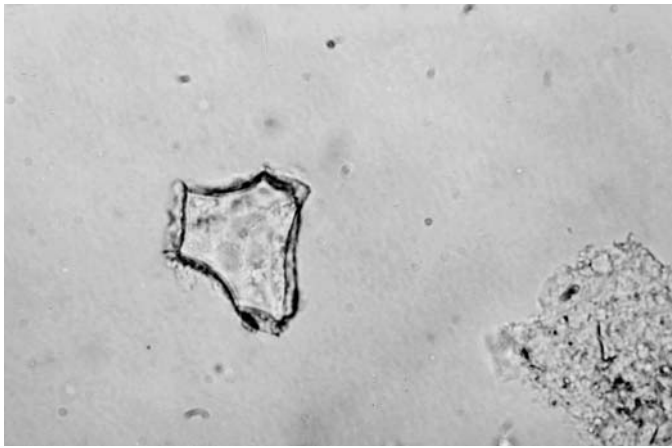
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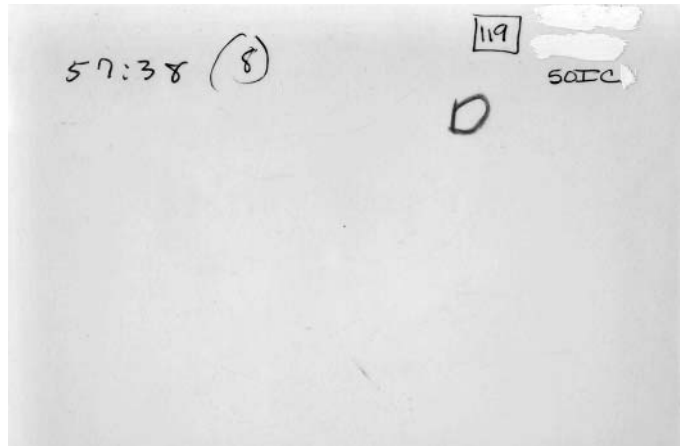
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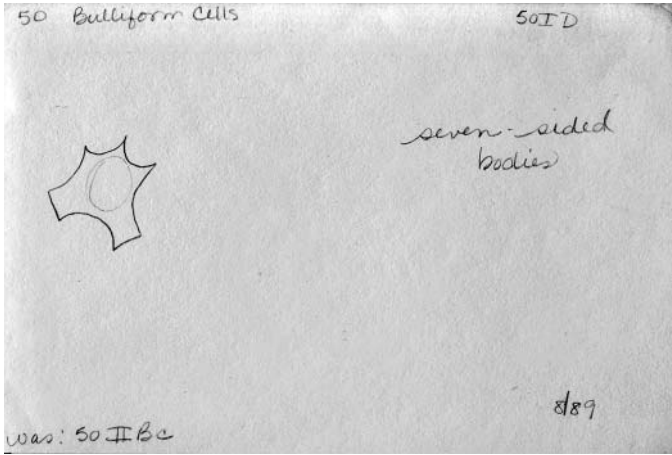
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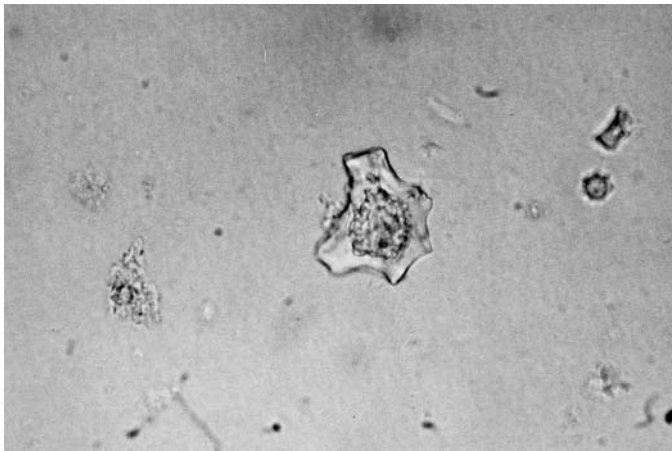
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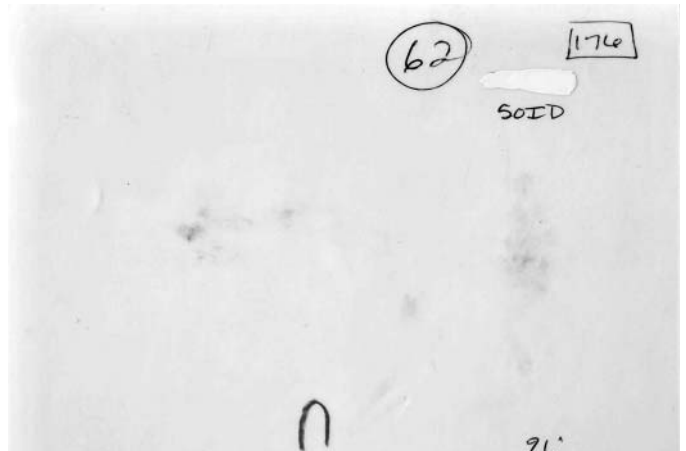
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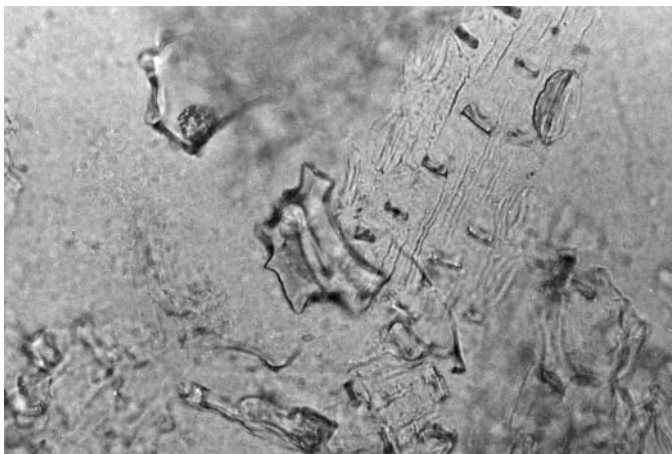
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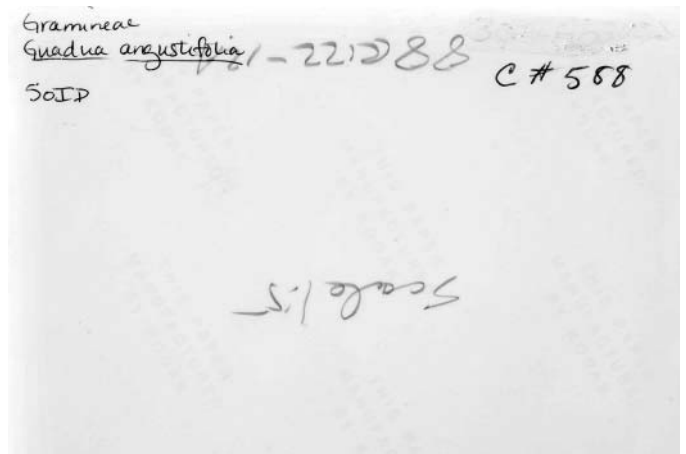
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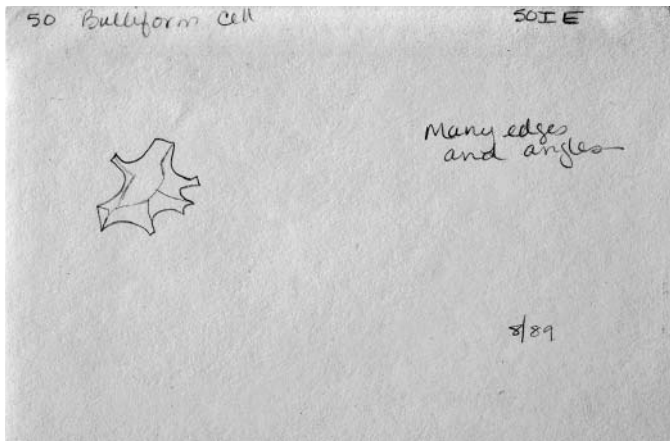
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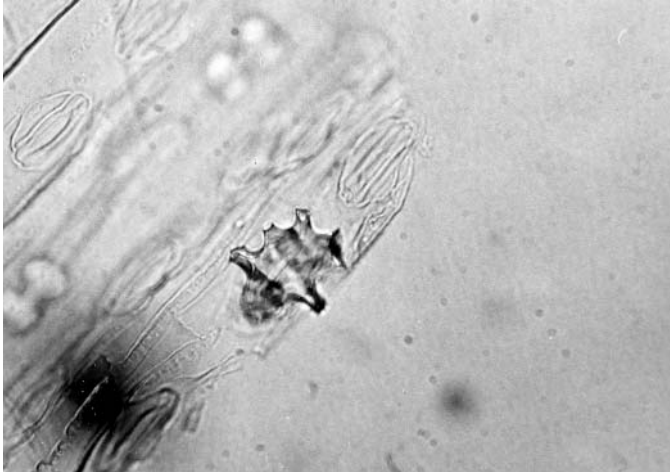
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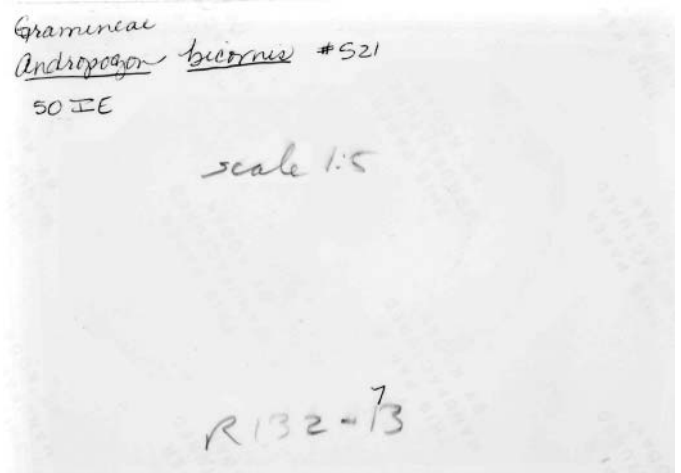
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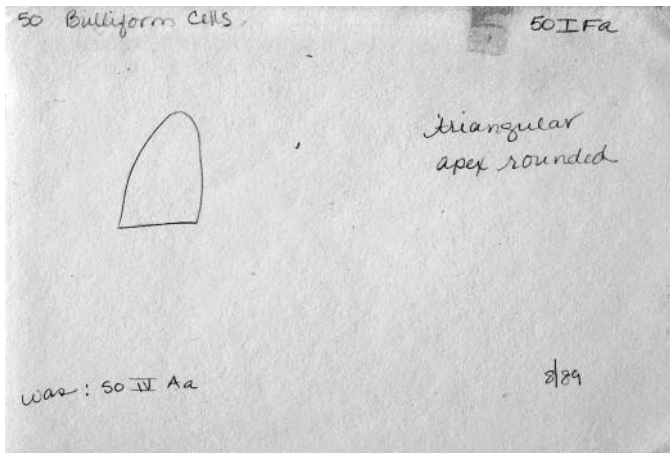
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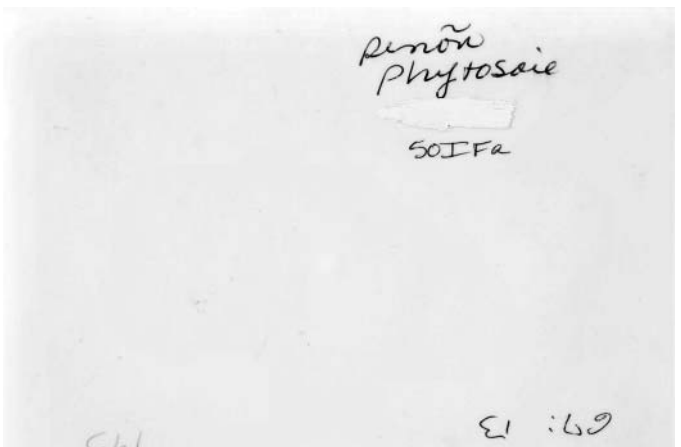
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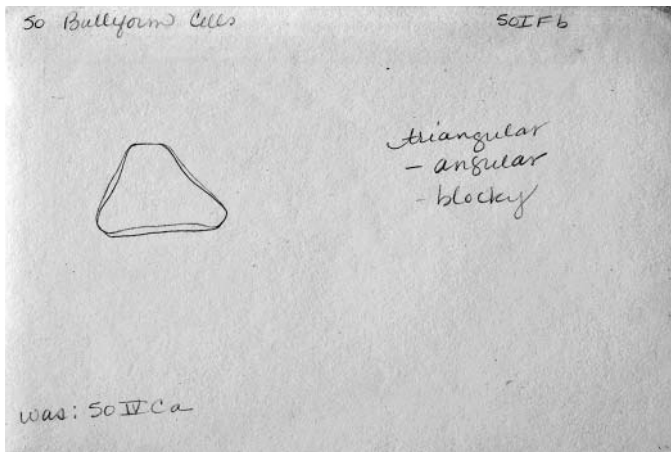
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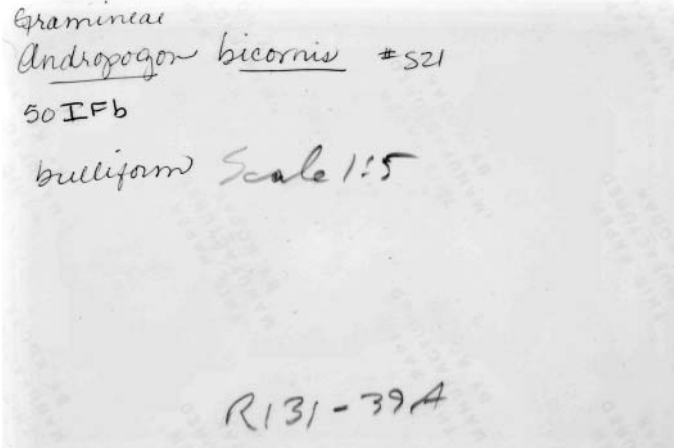
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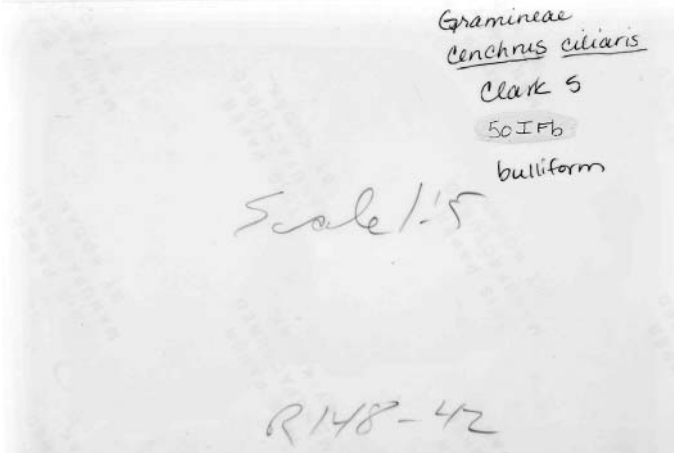
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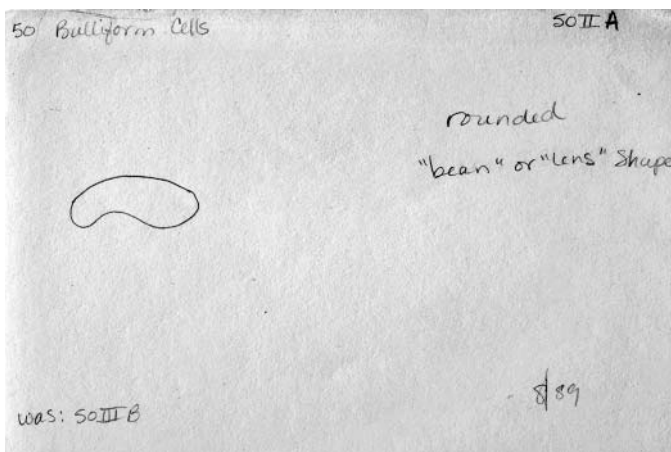
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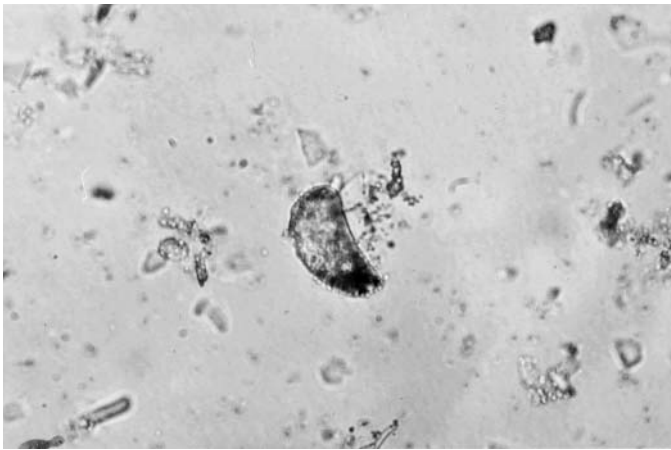
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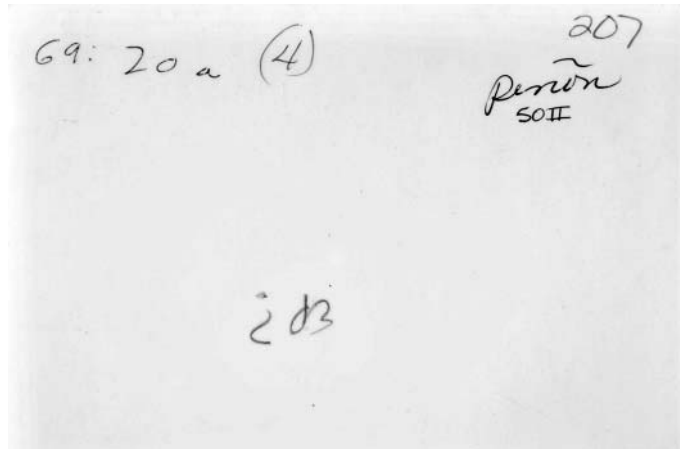
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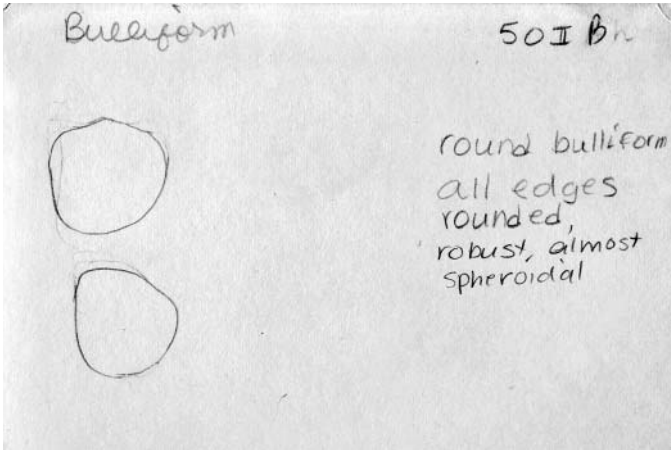
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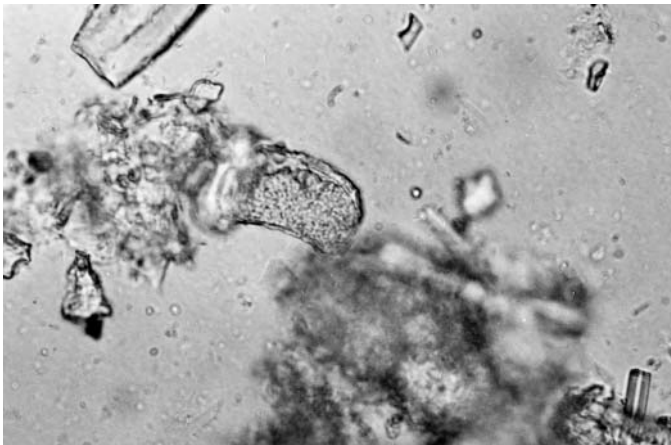
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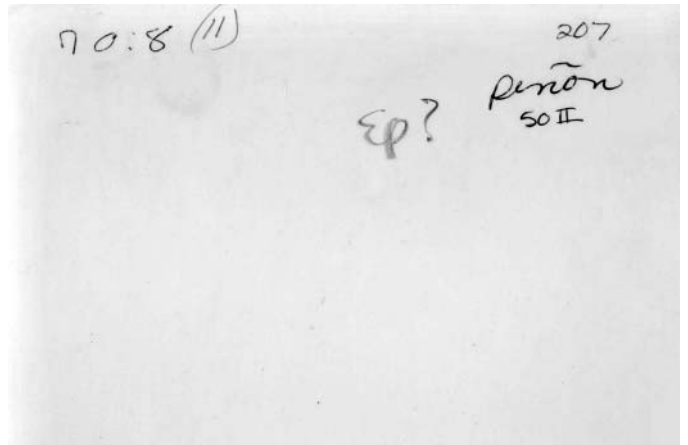
50IIA photo 1b.JPG



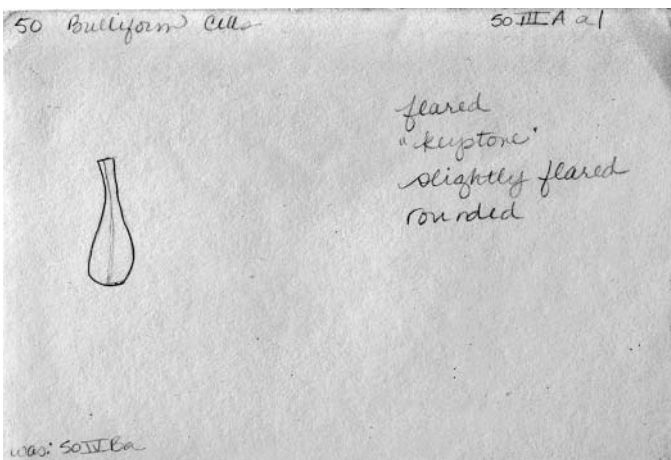
50IIBV card 1.JPG



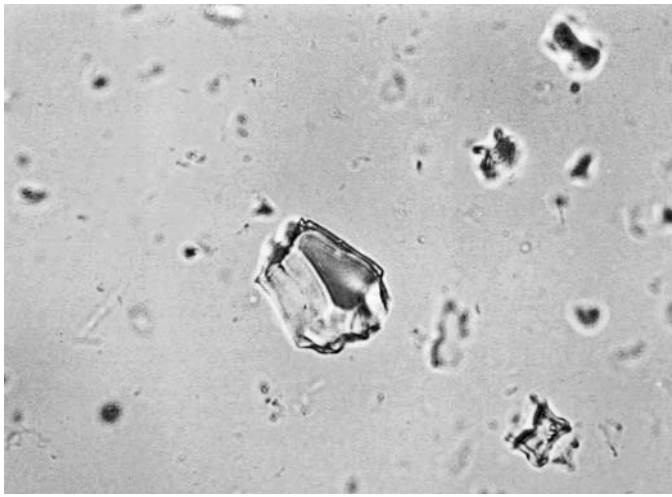
50IIB photo 1f.JPG



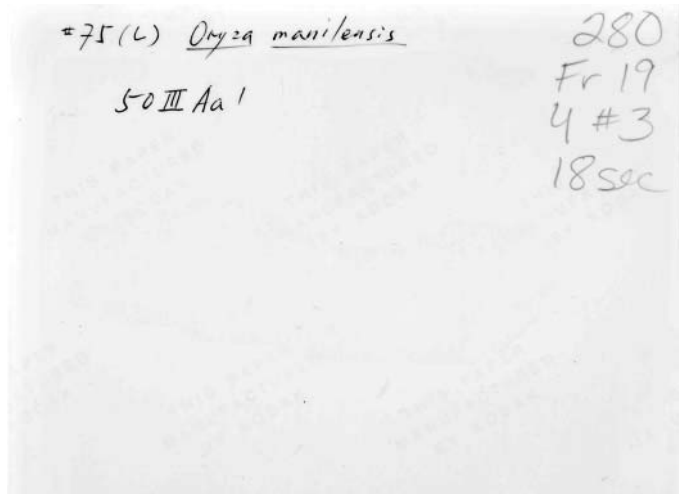
50IIB photo 1b.JPG



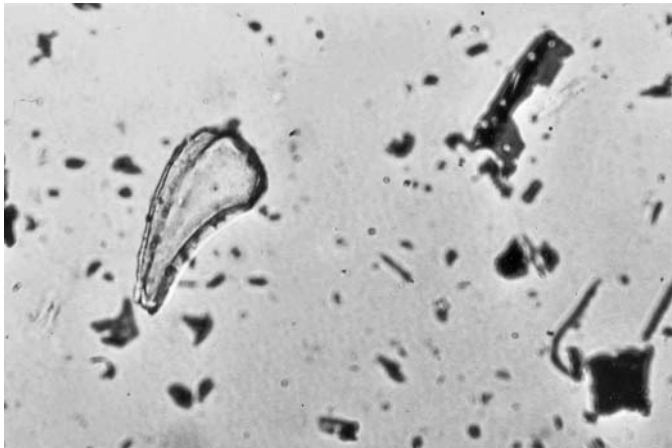
50IIIAa1 card 1.JPG



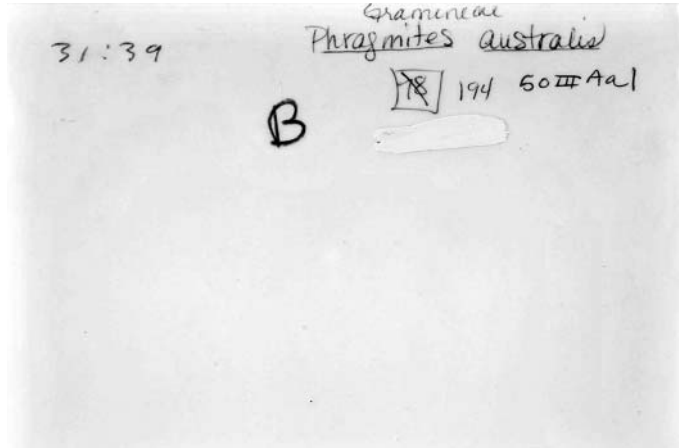
50IIIAa1 photo 1f.JPG



50IIIAa1 photo 1b.JPG



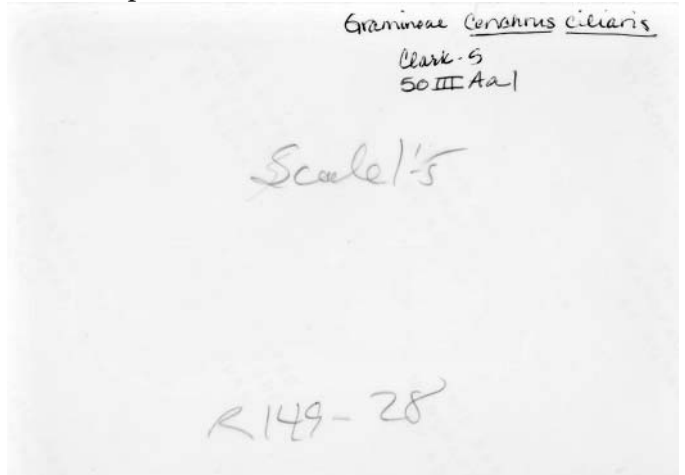
50IIIAa1 photo 2f.JPG



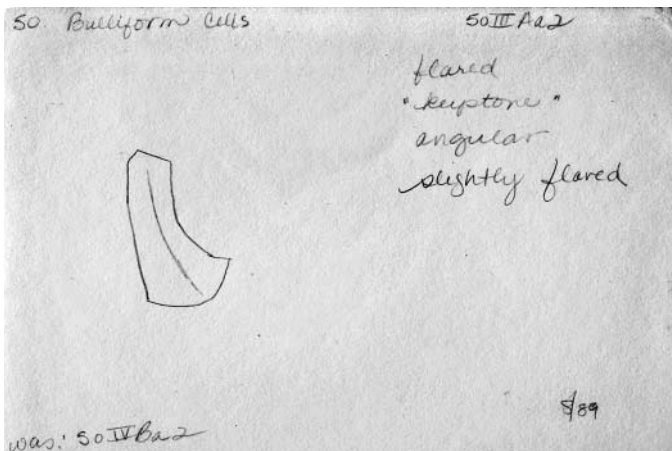
50IIIAa1 photo 2b.JPG



50IIIAa1 photo 3f.JPG



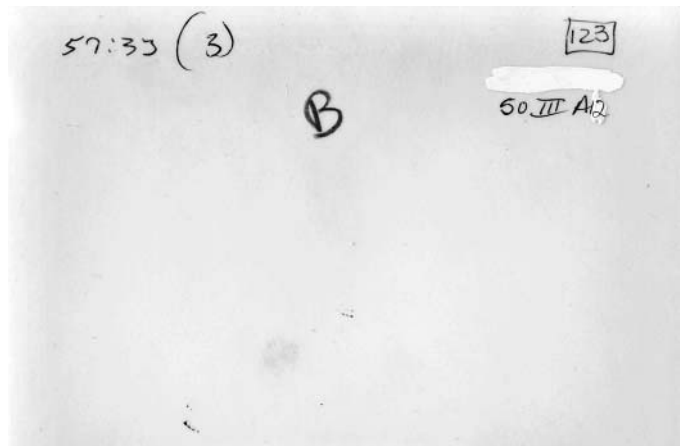
50IIIAa1 photo 3b.JPG



50IIIAa2 card 1.JPG



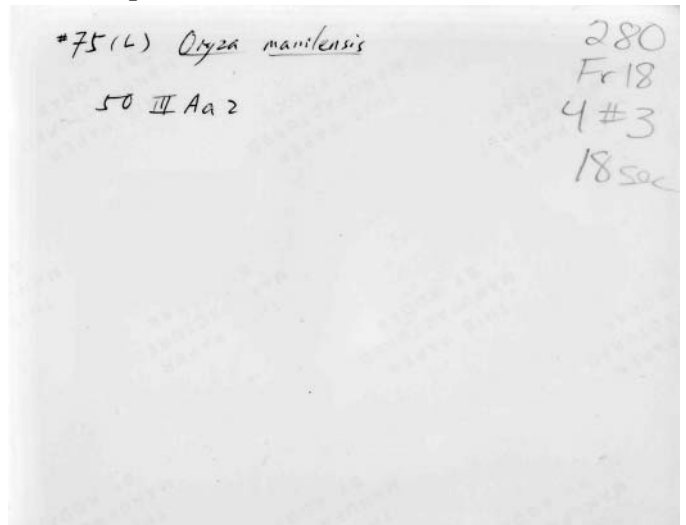
50IIIAa2 photo 1f.JPG



50IIIAa2 photo 1b.JPG



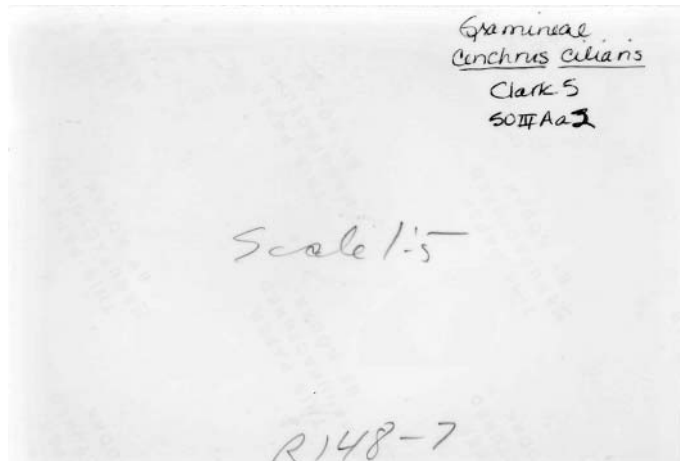
50IIIAa2 photo 2f.JPG



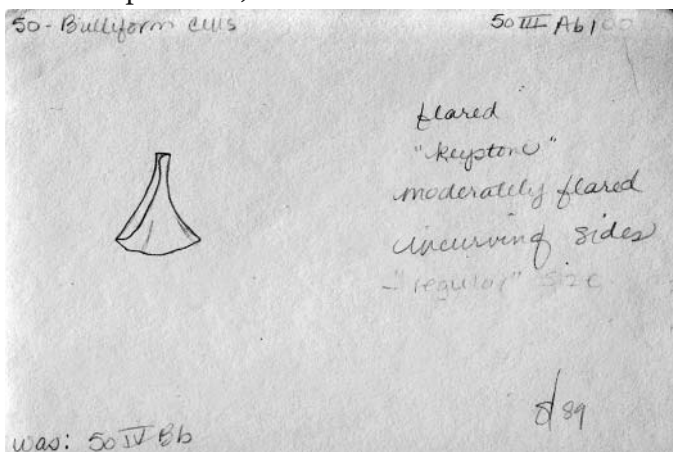
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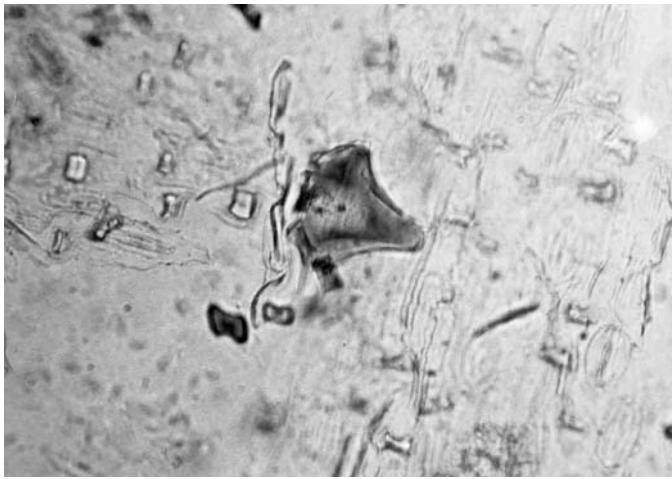
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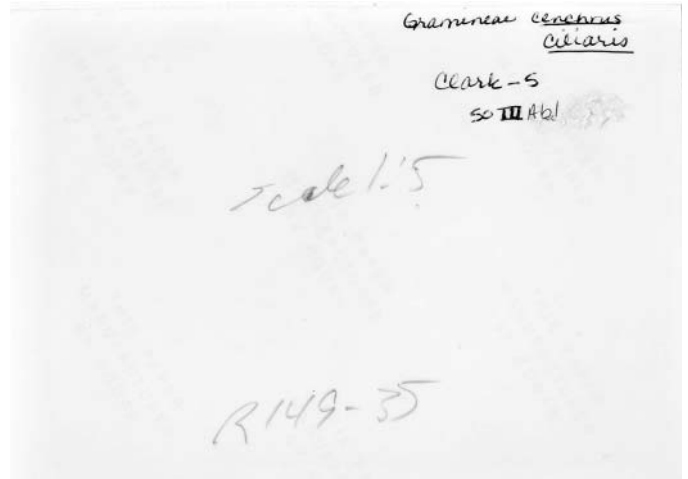
50IIIAa2 photo 3b.JPG



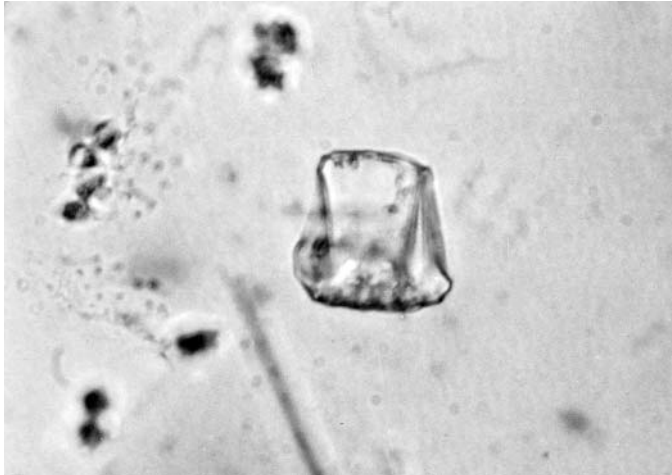
50IIIAb1 card 1.JPG



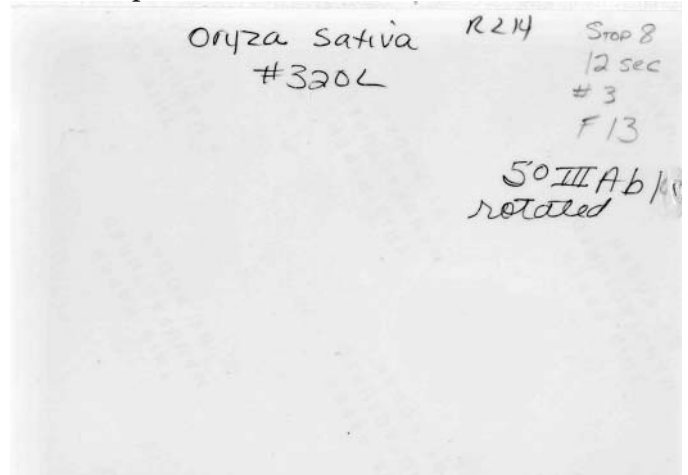
50IIIAb1 photo 1f.JPG



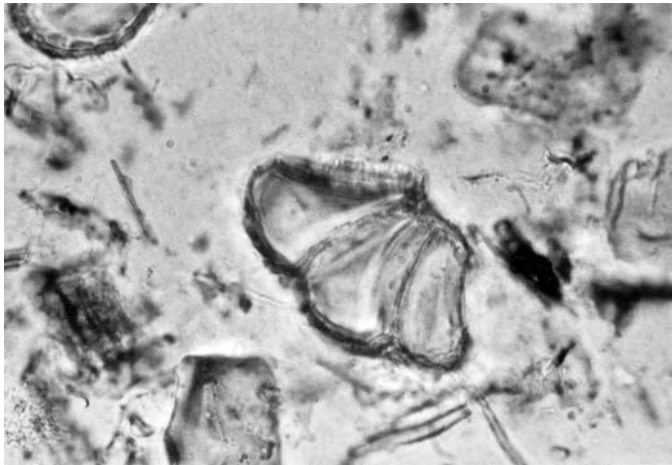
50IIIAb1 photo 1b.JPG



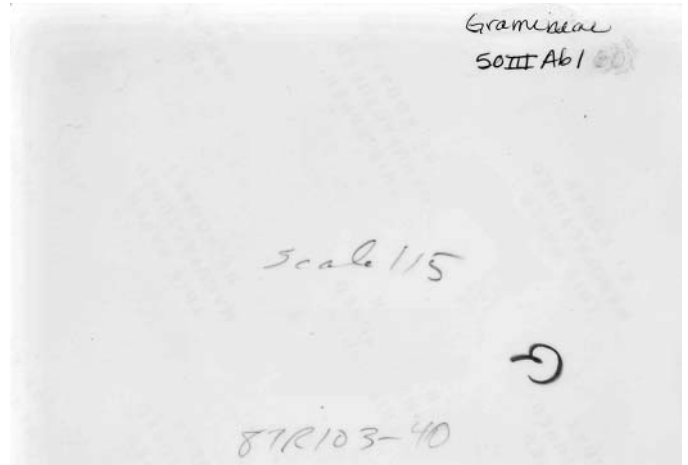
50IIIAb1 photo 2f.JPG



50IIIAb1 photo 2b.JPG



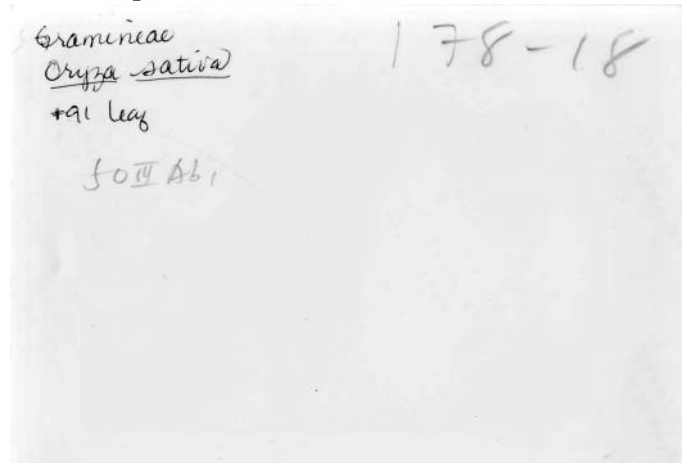
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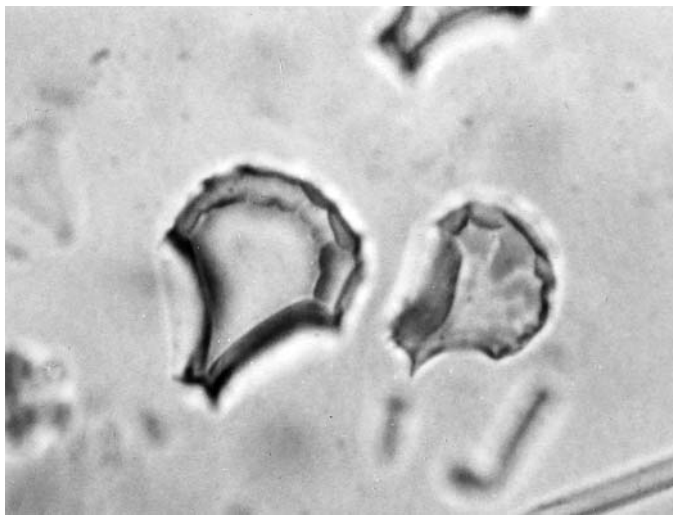
50IIIAb1 photo 3b.JPG



50IIIAb1 photo 4f.JPG



50IIIAb1 photo 4b.JPG

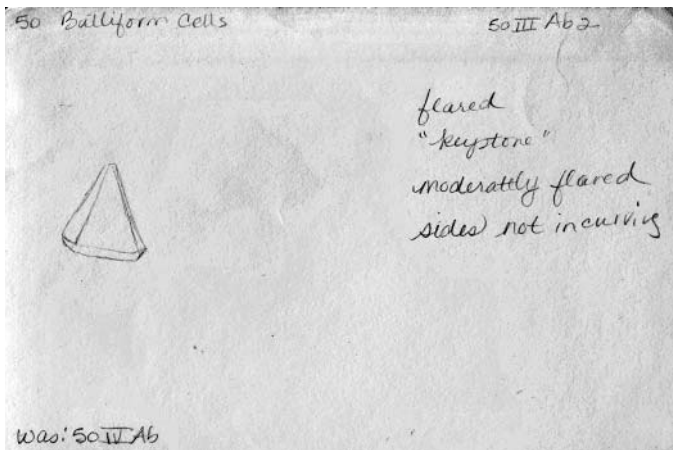


50IIIAb1 photo 5f.JPG

Oryza minuta
303 L
Bulliform

231
Fr 15
516 # 3 1/2
8sec

50IIIAb1 photo 5b.JPG



50IIIAb2 card 1.JPG

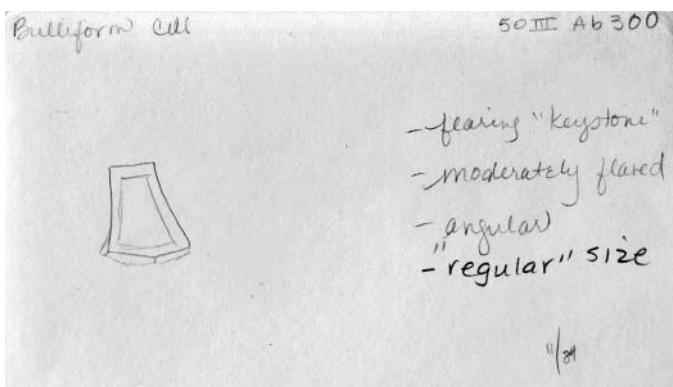


50IIIAb2 photo 1f.JPG

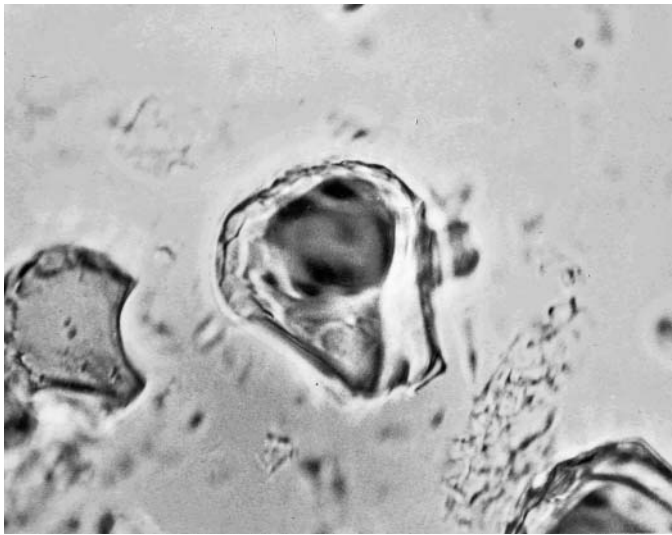
#85(L) *Oryza sativa*
50 III Ab 2

280
Fr 21
4 #3
20sec

50IIIAb2 photo 1b.JPG



50IIIAb300 card 1.JPG

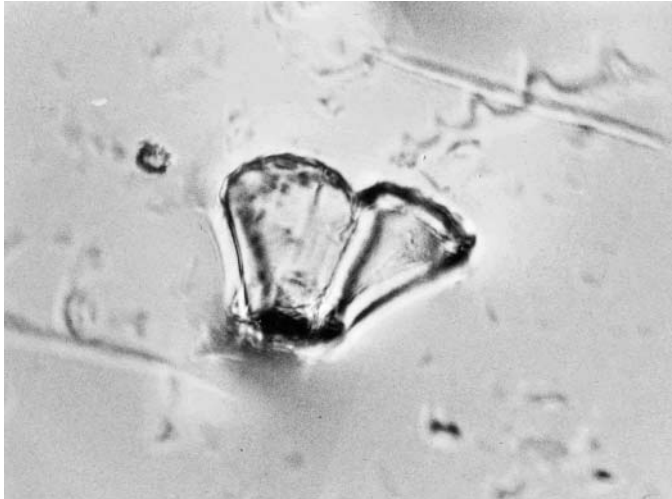


50IIIAb300 photo 1f.JPG

21 (L) *Oryza officinalis*
50IIIAb3

280
Fr24

50IIIAab300 photo 1b.JPG

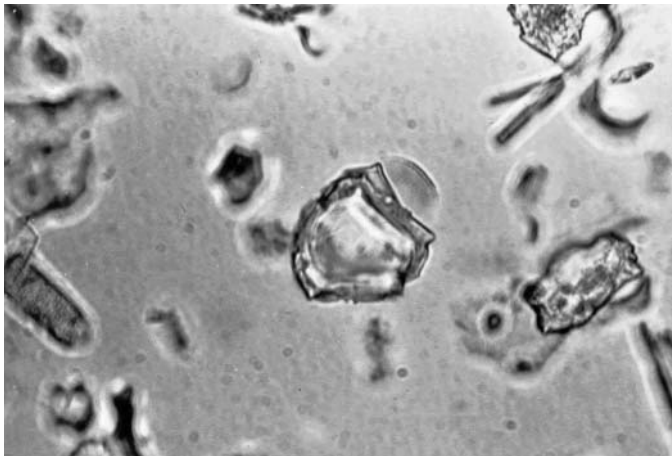


50IIIAb300 photo 2f.JPG

21 (L) *Oryza officinalis*
50IIIAb3

280
Fr23

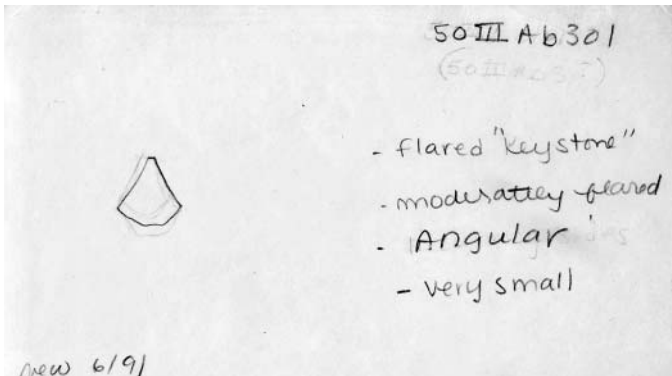
50IIIAab300 photo 2b.JPG



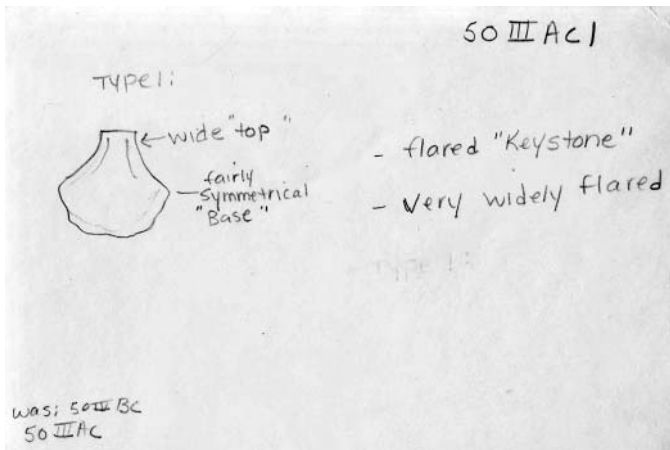
50IIIAb300 photo 3f.JPG

Monte Verde 735
50IIIAb3
moderately flared keystone
angular R 164 12

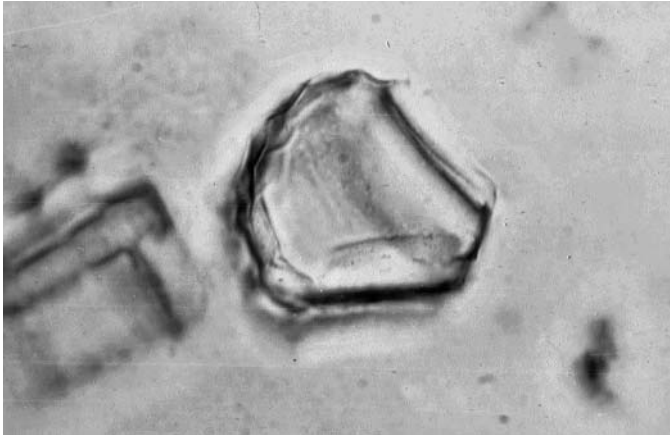
50IIIAb300 photo 3b.JPG



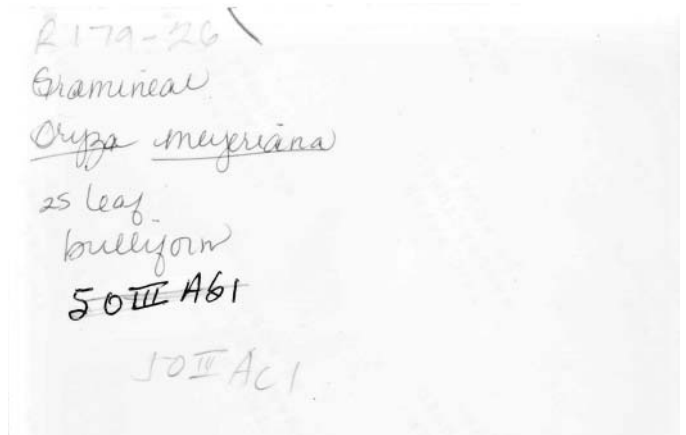
50IIIAb301 card 1.JPG



50III Ac1 card 1.JPG



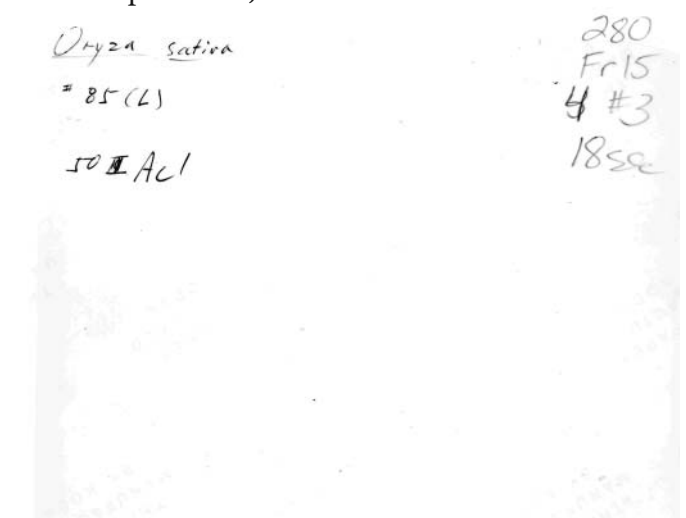
50III Ac1 photo 1f.JPG



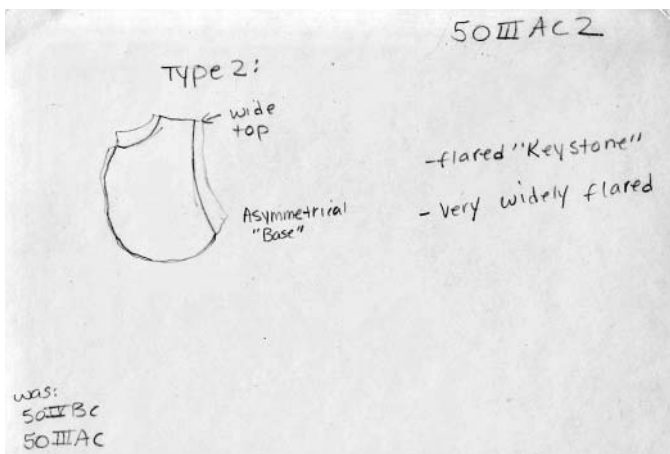
50III Ac1 photo 1b.JPG



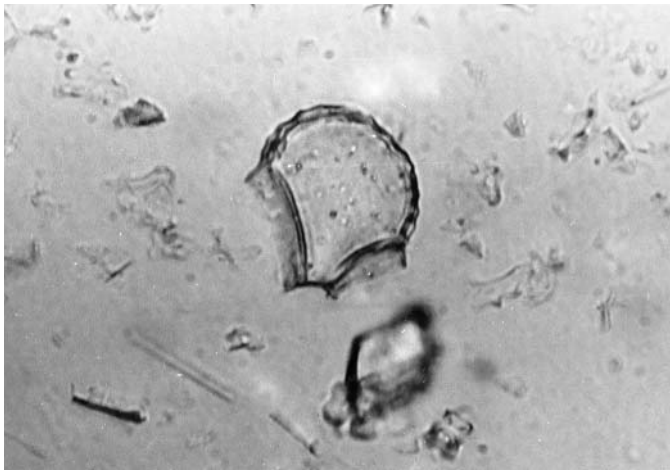
50III Ac1 photo 2f.JPG



50III Ac1 photo 2b.JPG



50III Ac2 card 1.JPG



50IIIAC2 photo 1f.JPG

Gramineae
Oryza sativa
 #91 leaf
 50IIIAC2

178-19

50IIIAC2 photo 1b.JPG

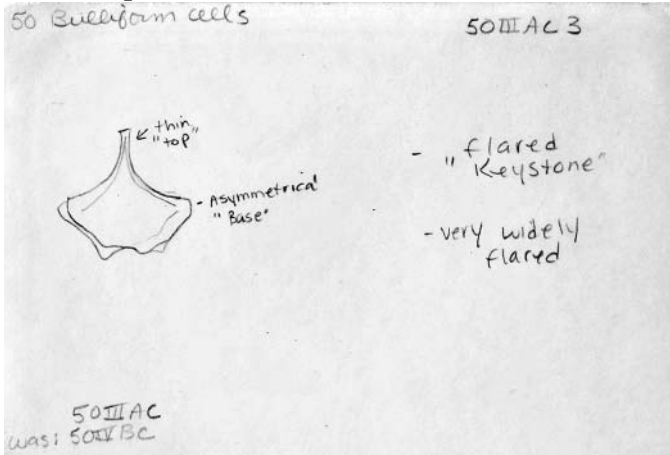


50IIIAC2 photo 2f.JPG

#85(L) Oryza sativa
 50IIIAC2

280
 Fr 22
 4#3
 21 sec

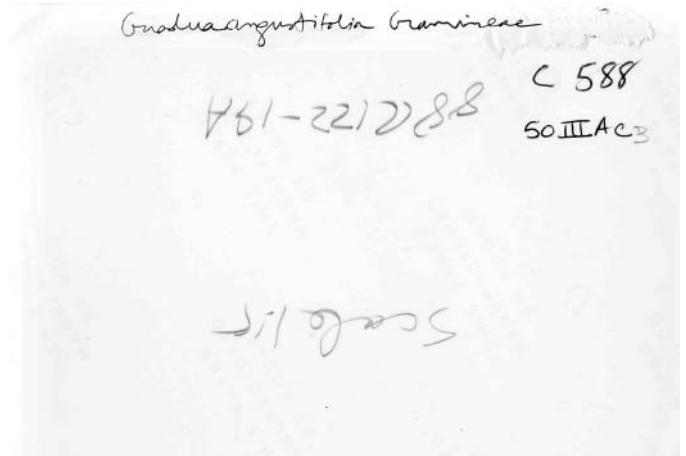
50IIIAC2 photo 2b.JPG



50IIIAC3 card 1.JPG



50IIIAC3 photo 1f.JPG



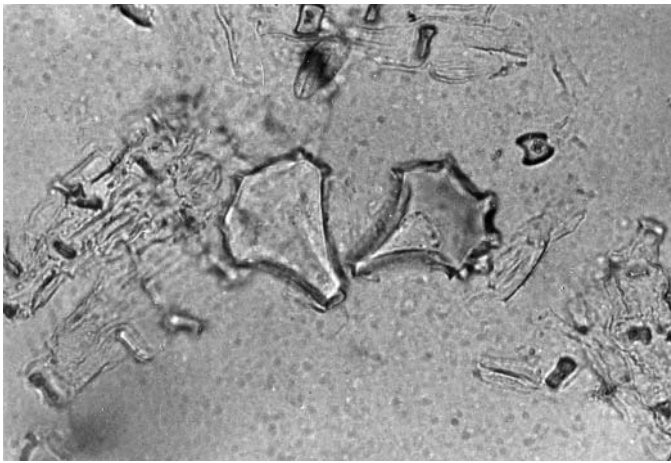
50IIIAC3 photo 1b.JPG

Guadua angustifolia Gramineae

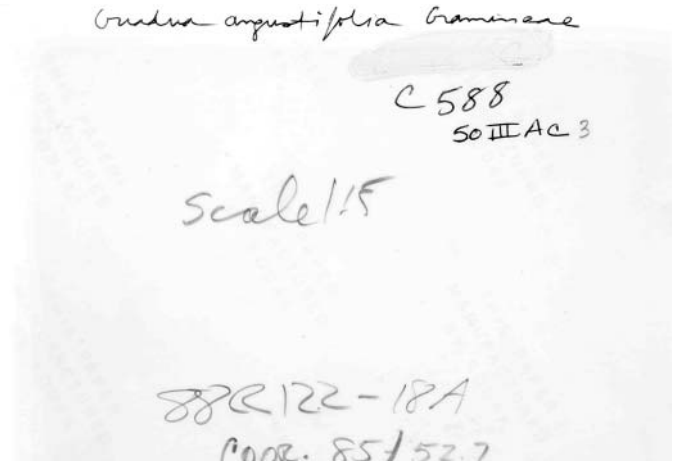
88C122-19A

C 588
 50IIIAC3

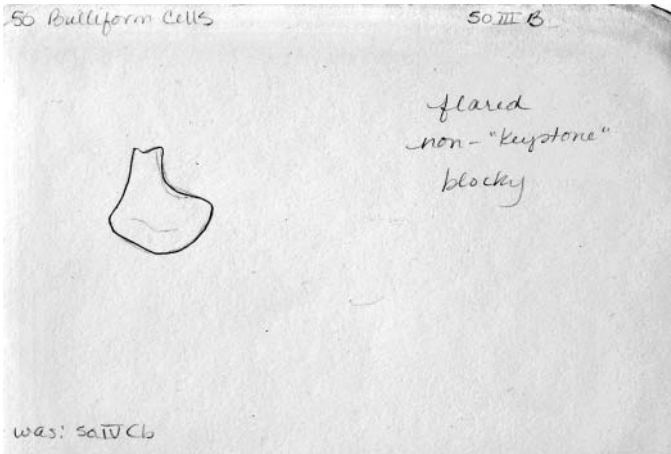
Scale 1/5



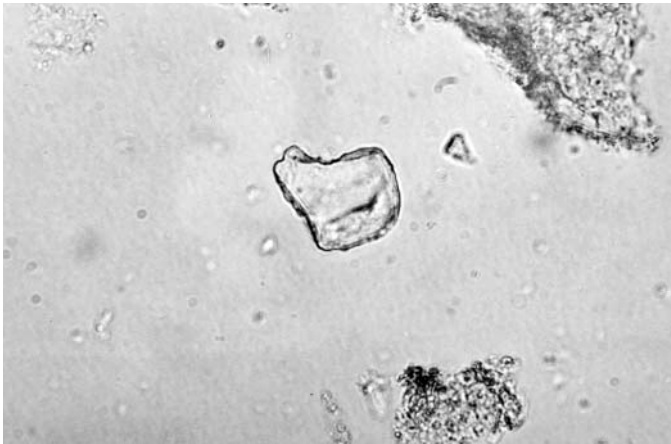
50IIIAC3 photo 2f.JPG



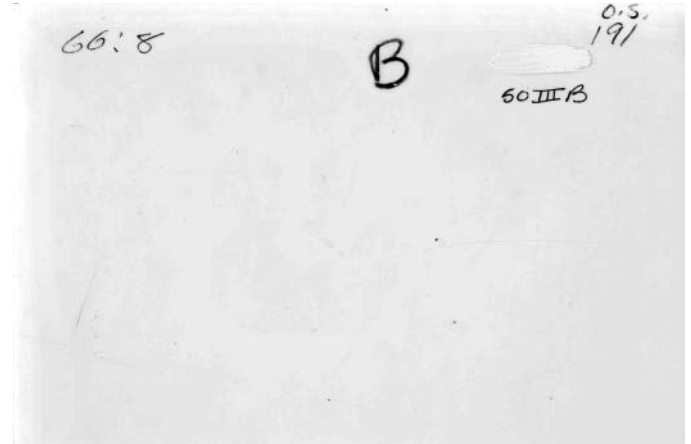
50IIIAC3 photo 2b.JPG



50IIIB card 1.JPG



50IIIB photo 1f.JPG



50IIIB photo 1b.JPG