

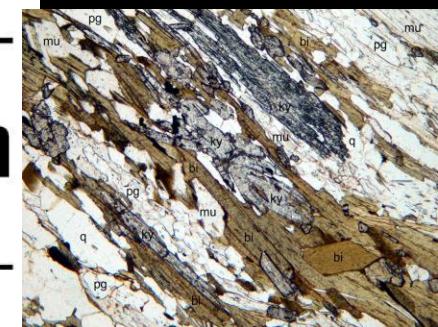
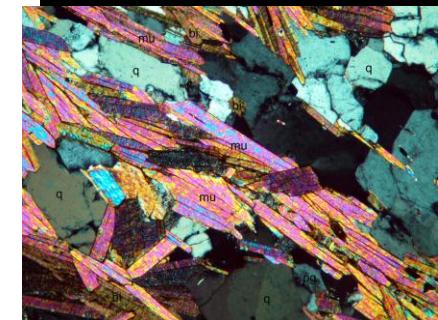
Newly Discovered Serpentinite Bodies Associated with the St. Nicholas Thrust Zone in Northern Manhattan

Charles Merguerian
Geology Department
Hofstra University

Cheryl J. Moss
Mueser Rutledge
Consulting Engineers



TrJns



O-Ch

Hartland Formation and
Manhattan Schist
(upper unit)

Omm

Manhattan Schist
(middle unit)

Oml

Manhattan Schist
(lower unit)

O-Ei

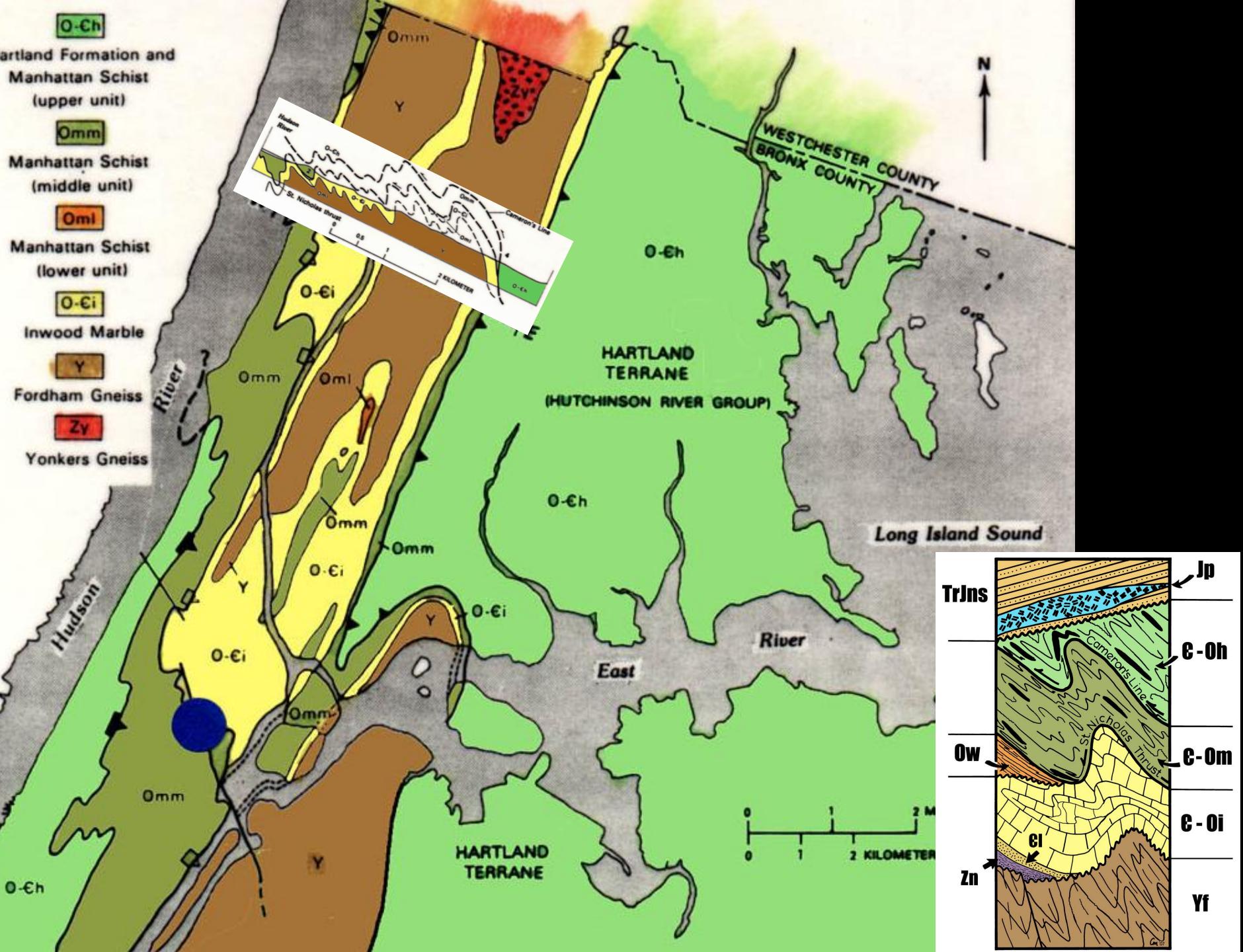
Inwood Marble

Y

Fordham Gneiss

Zy

Yonkers Gneiss



TrJns

Jp

C-Oh

Ow

C-0m

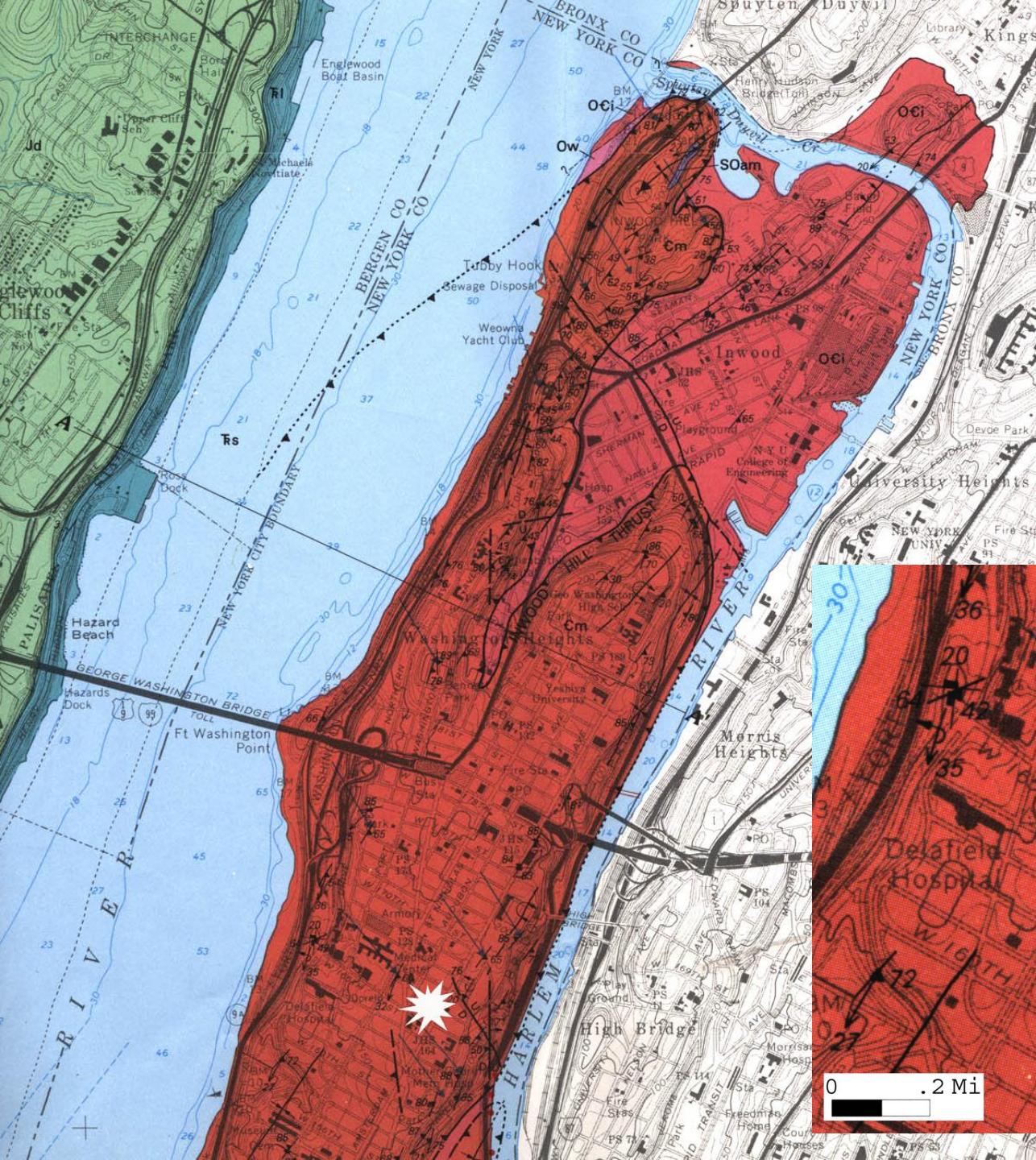
C-Oi

Zn

Vf

Cl

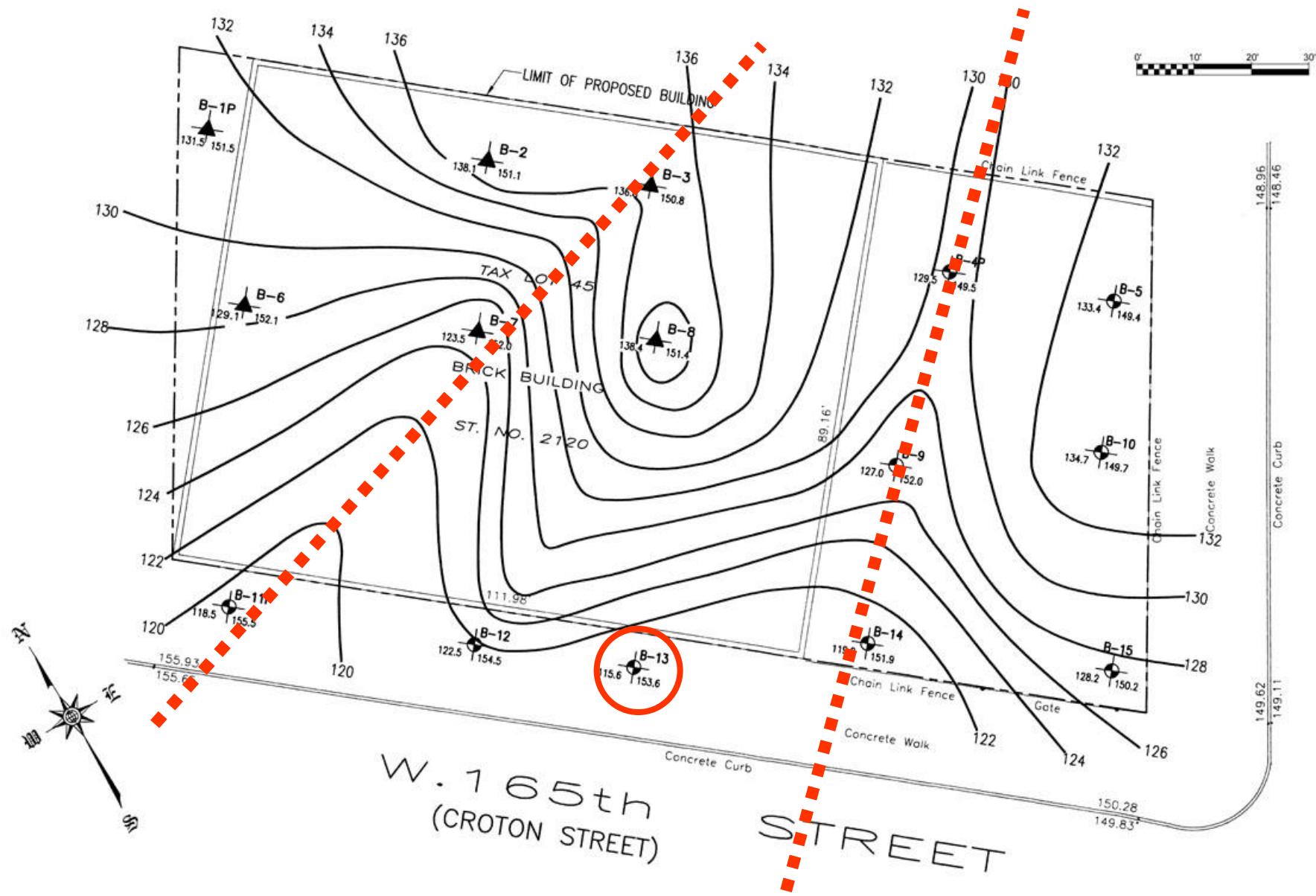
Yf



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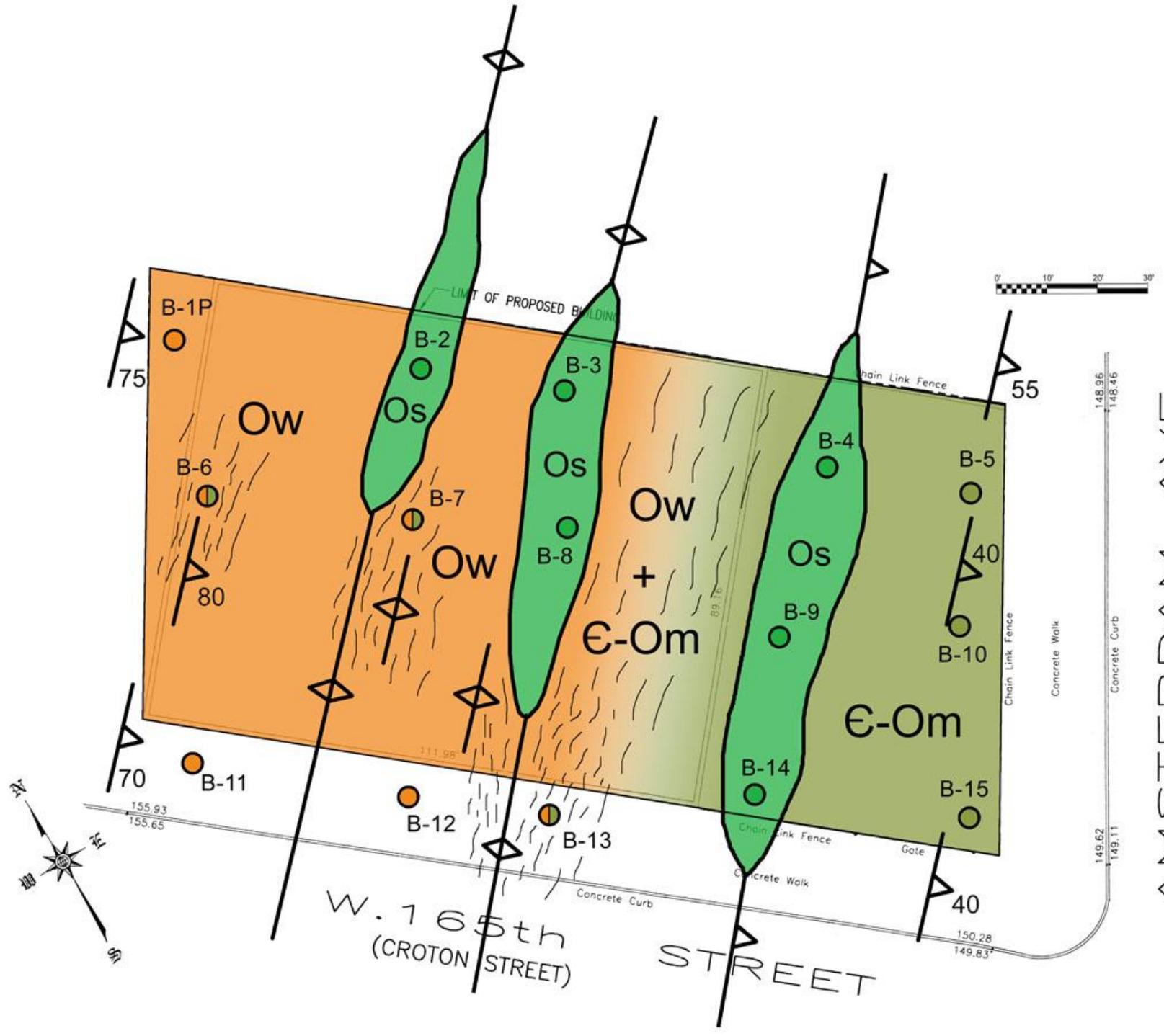
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B-13 **Dip-slip
Slickenlines**

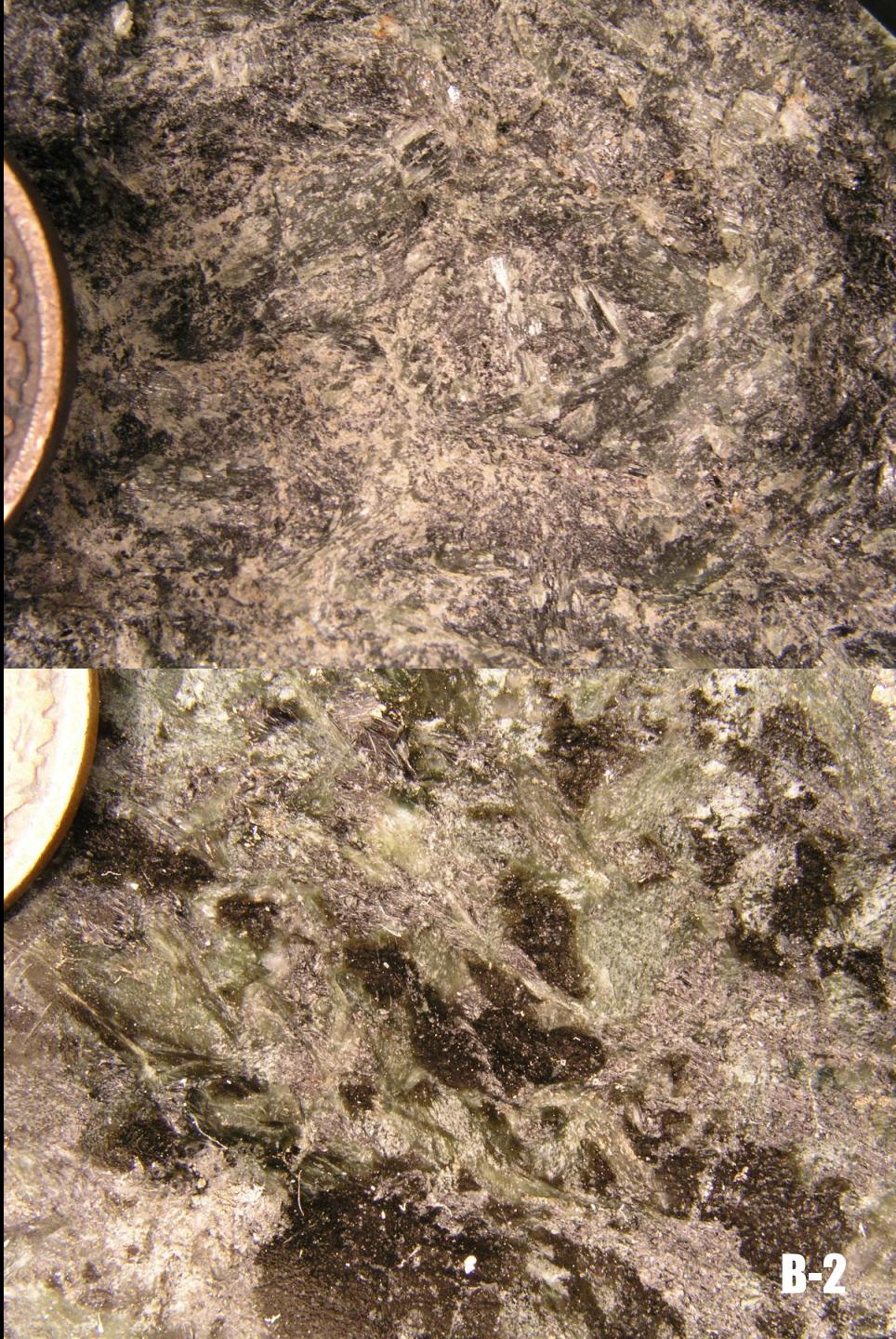
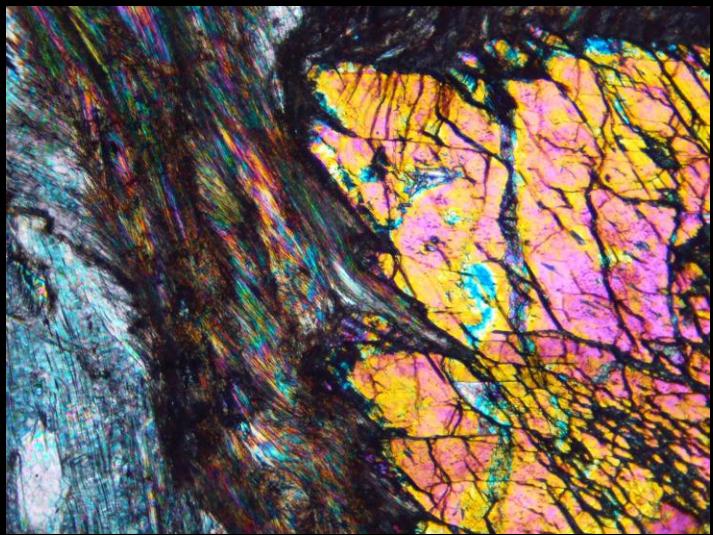
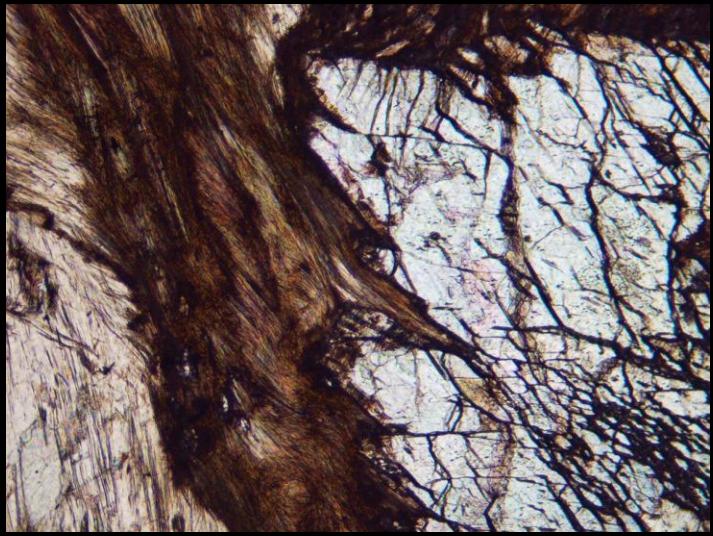


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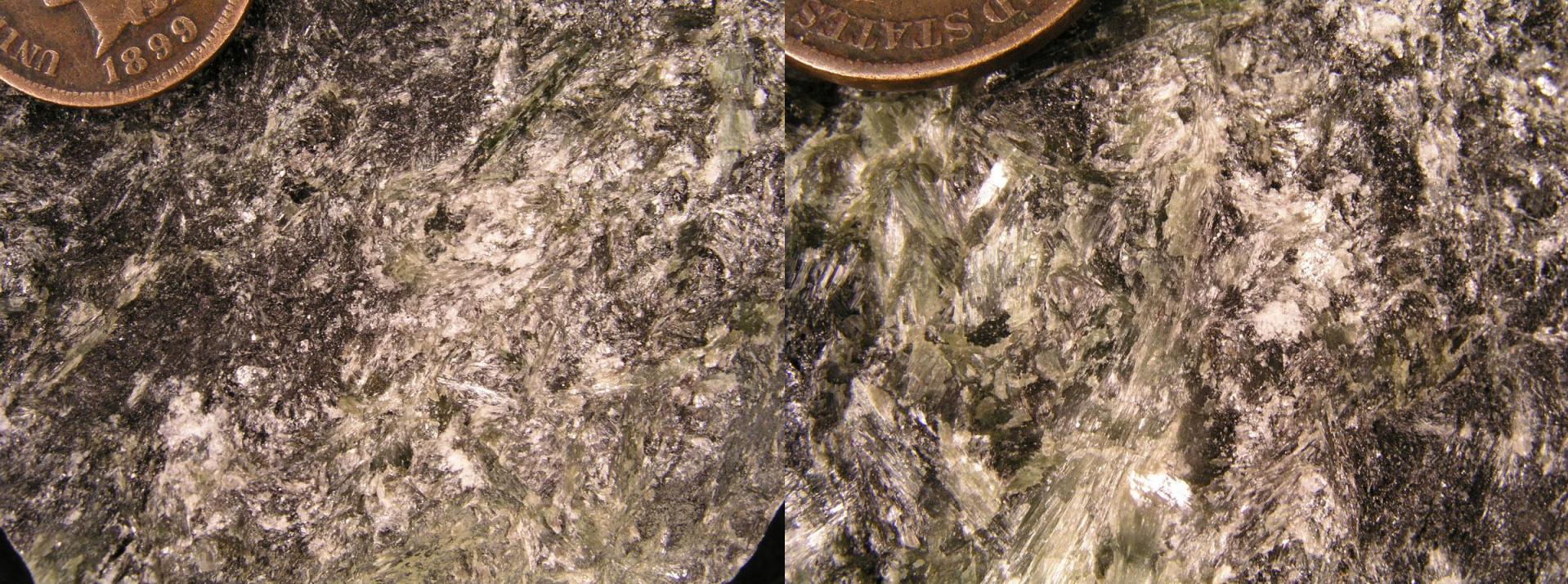


Serpentinite Found in 40% of Borings

B-2 B-3 B-4 B-8 B-9 B-14



B-2

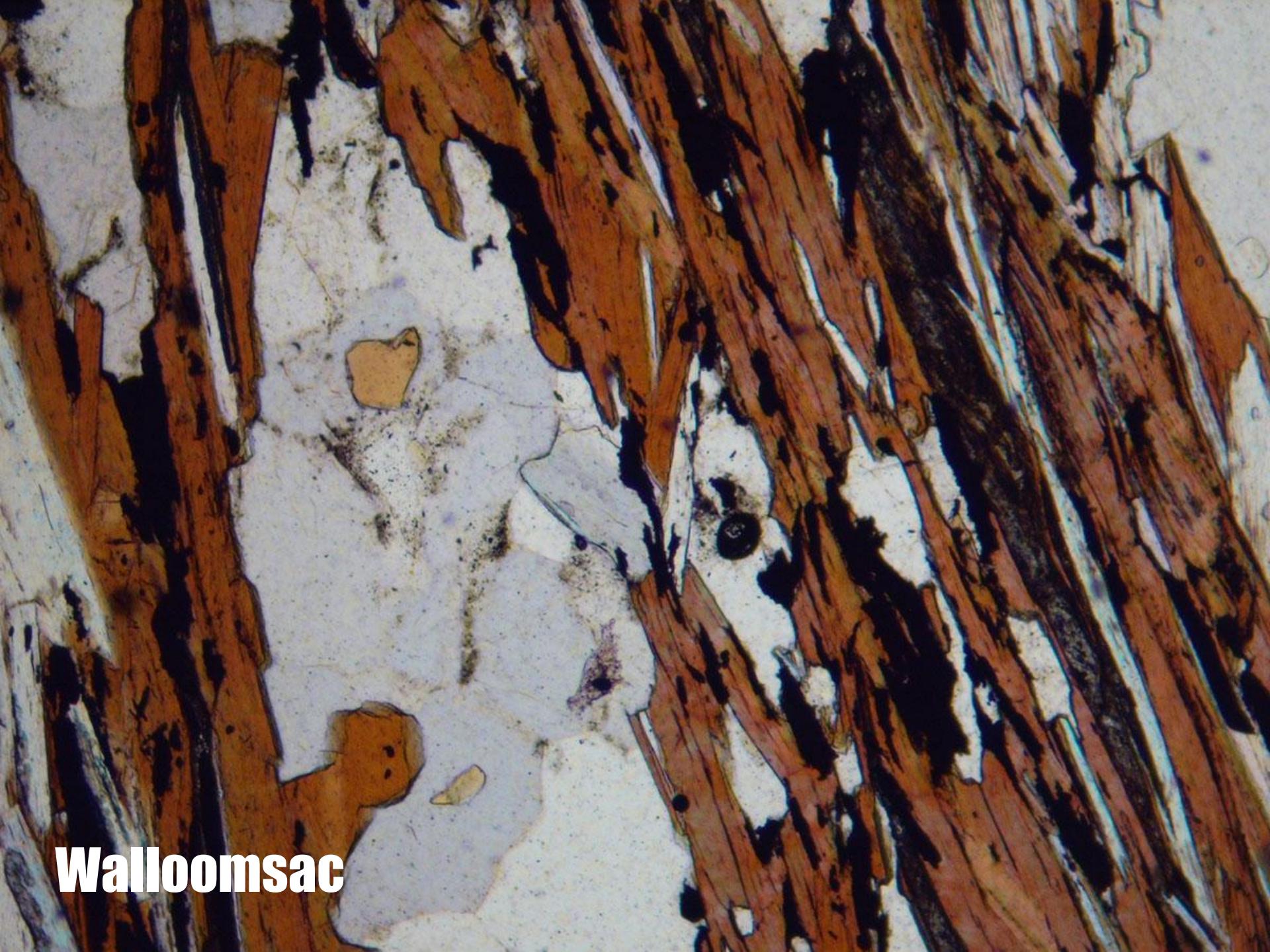


B-4



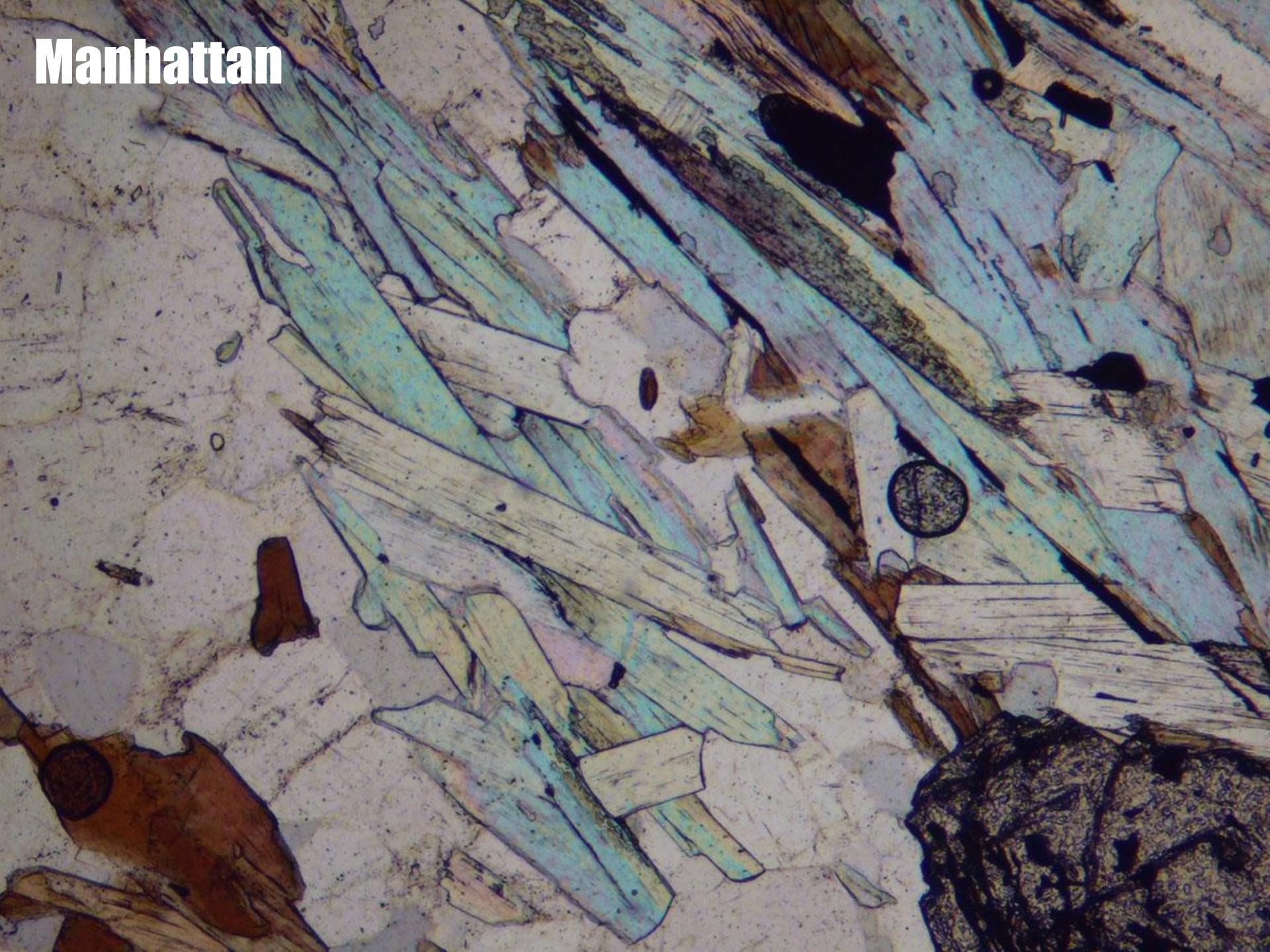
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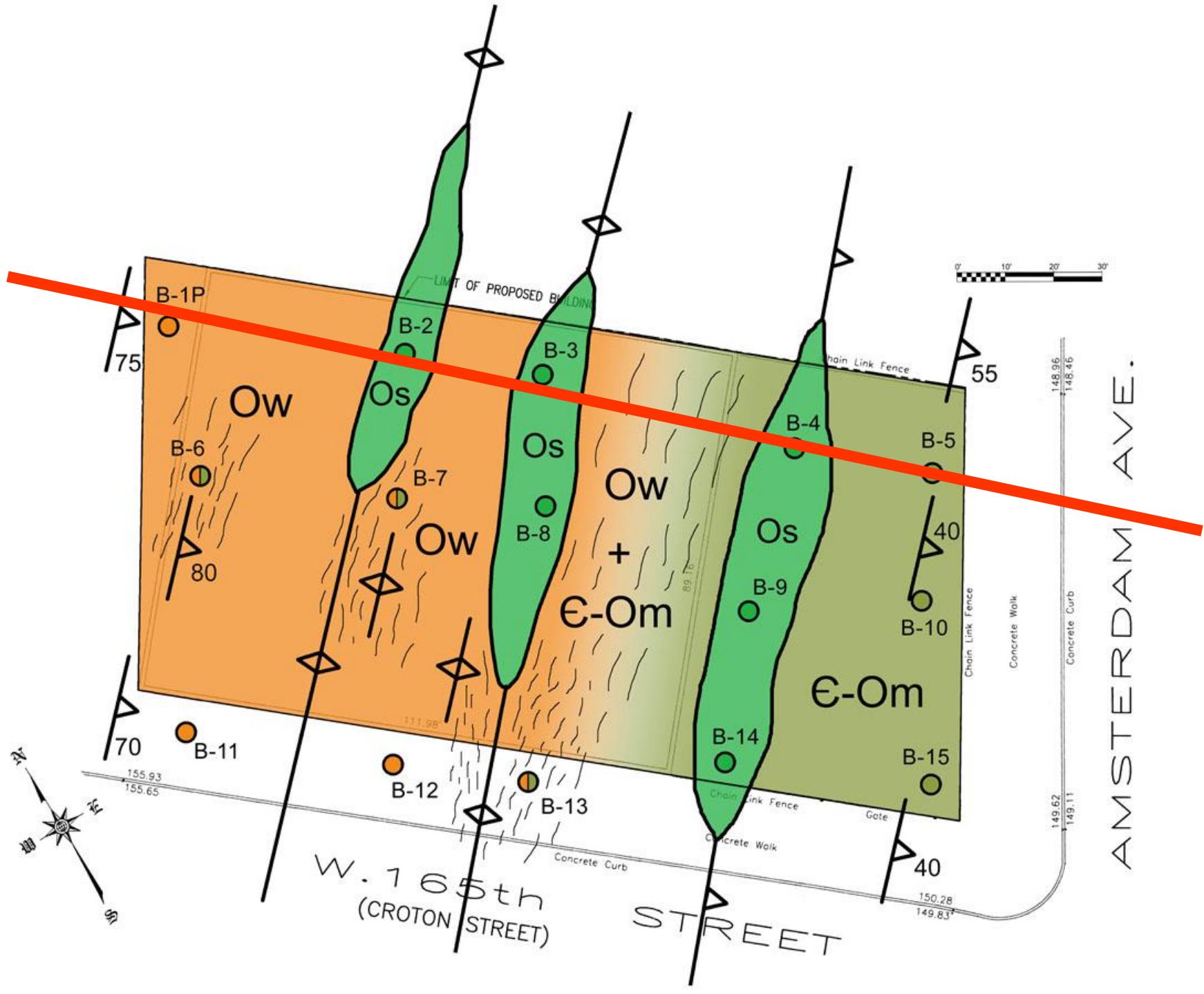
B-14

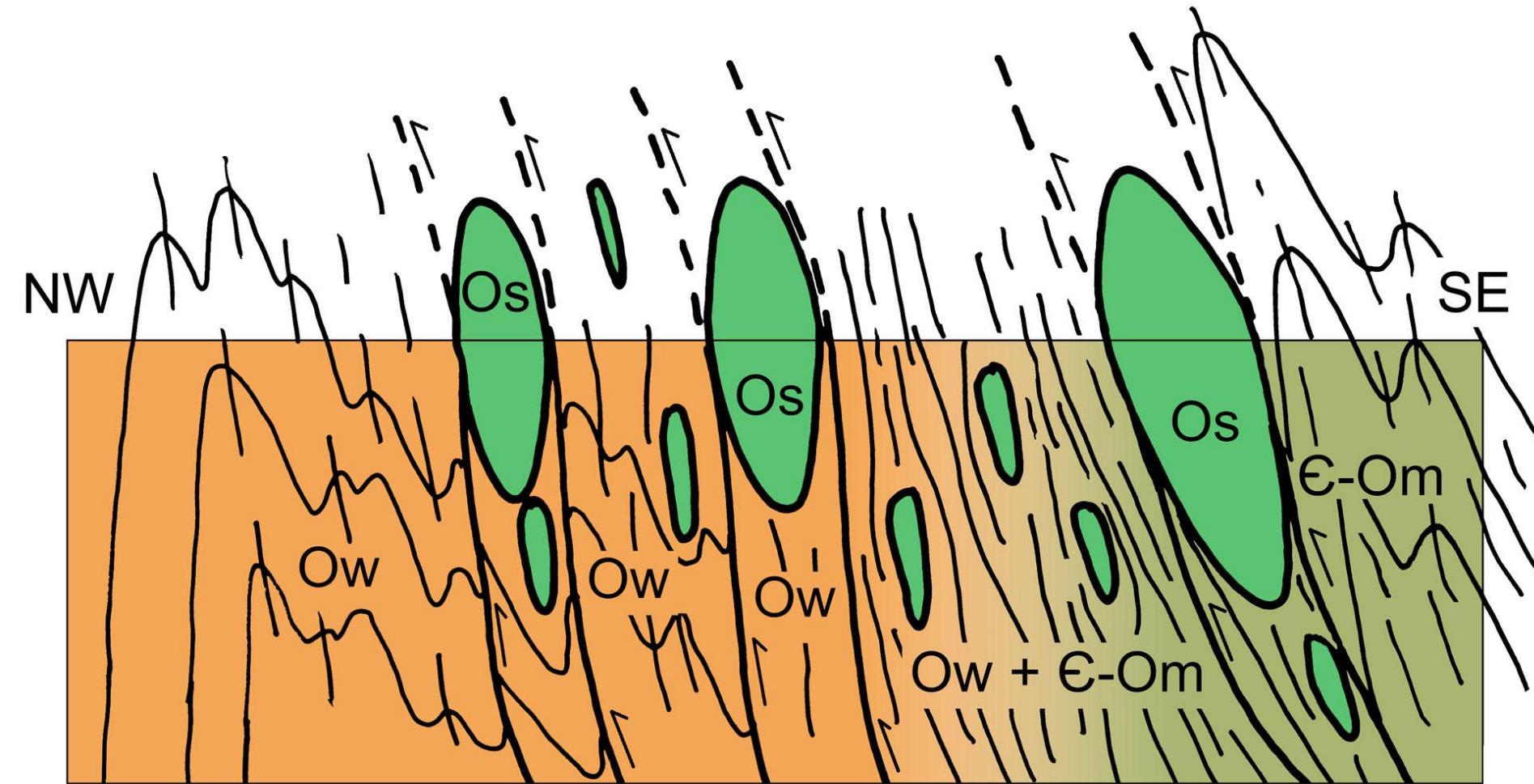


Walloomasac

Manhattan









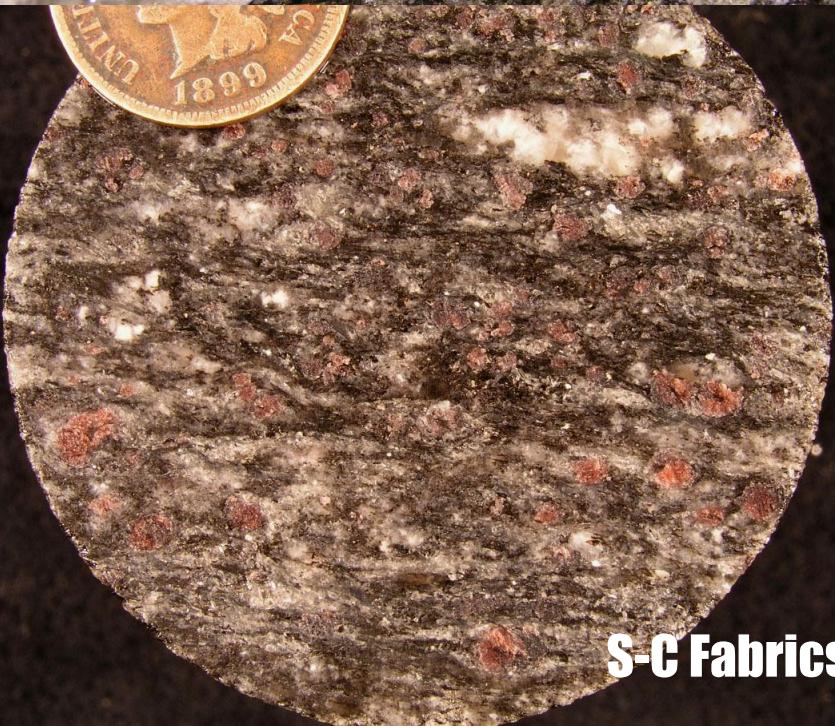
Shredded Appearance Mixed Lithologies

B-01P



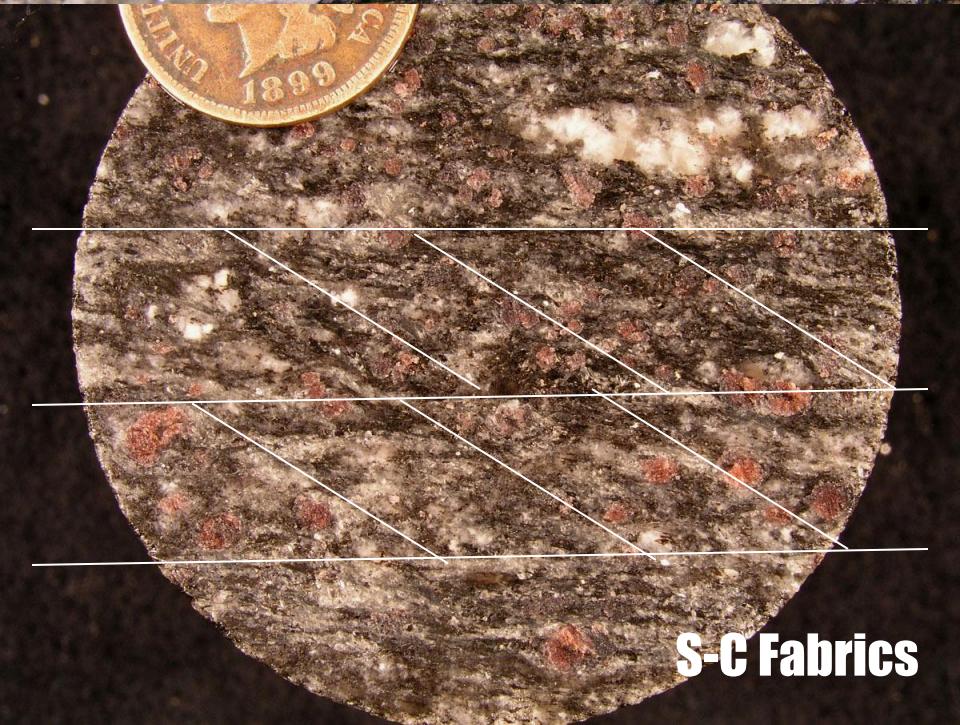


B-12



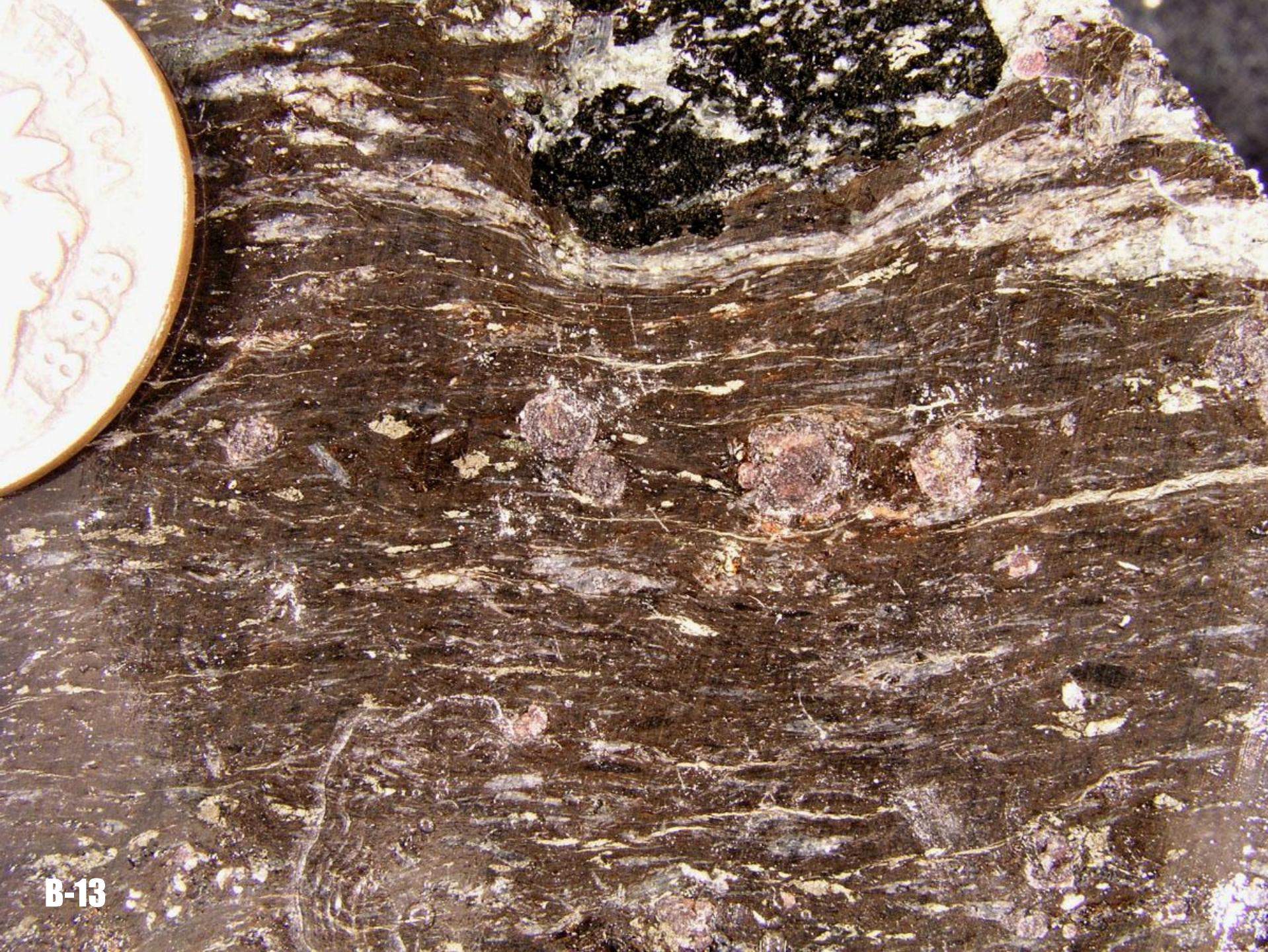
B-5

S-C Fabrics



B-5

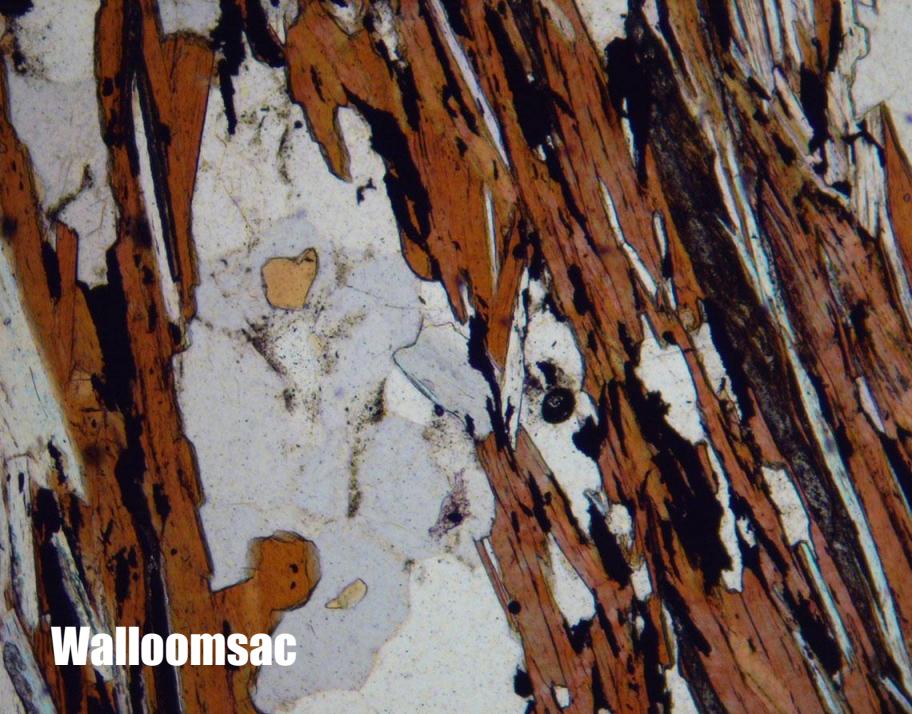
S-C Fabrics



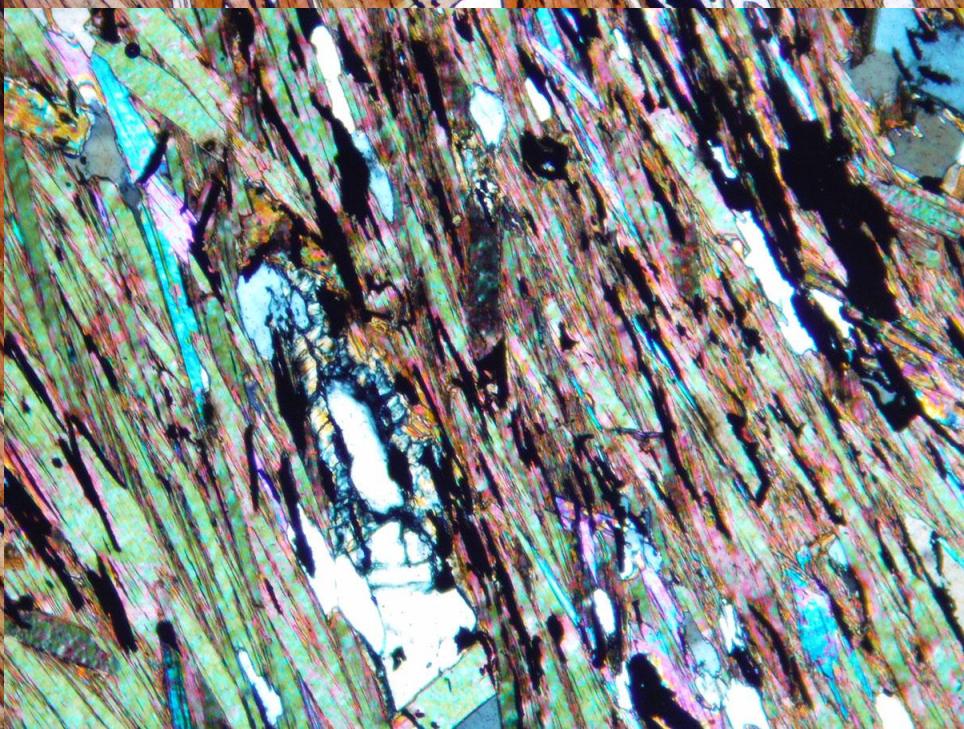
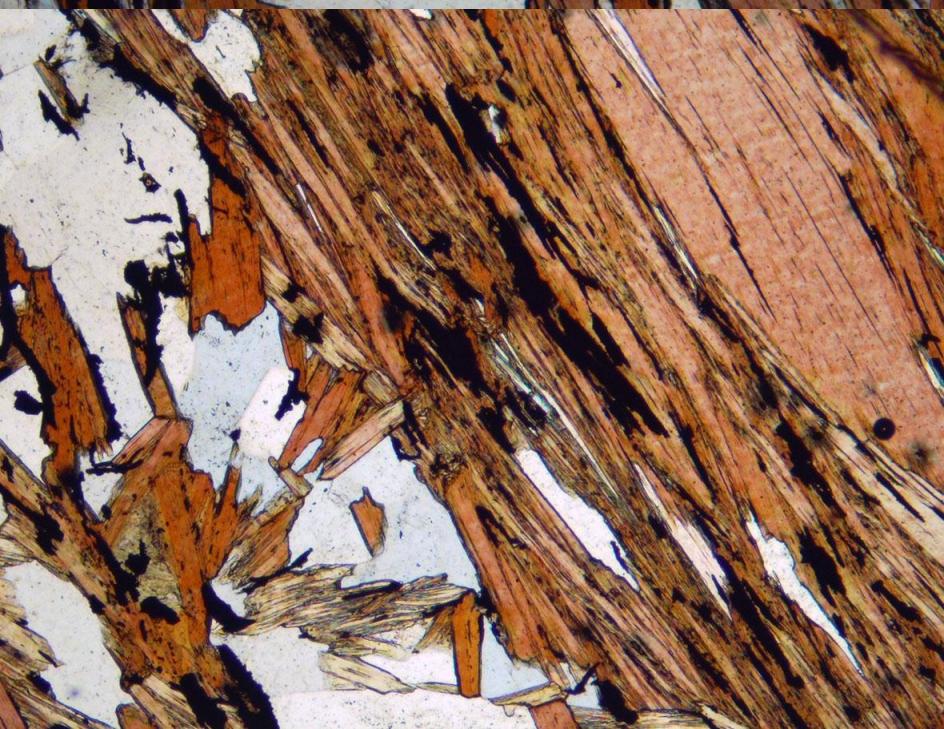
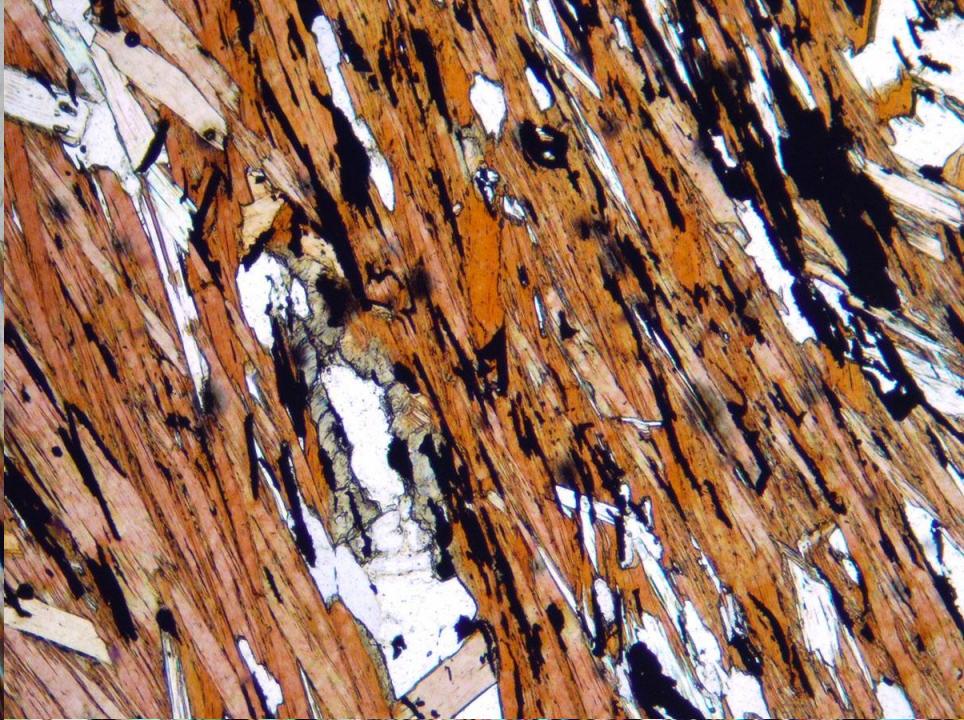
B-13

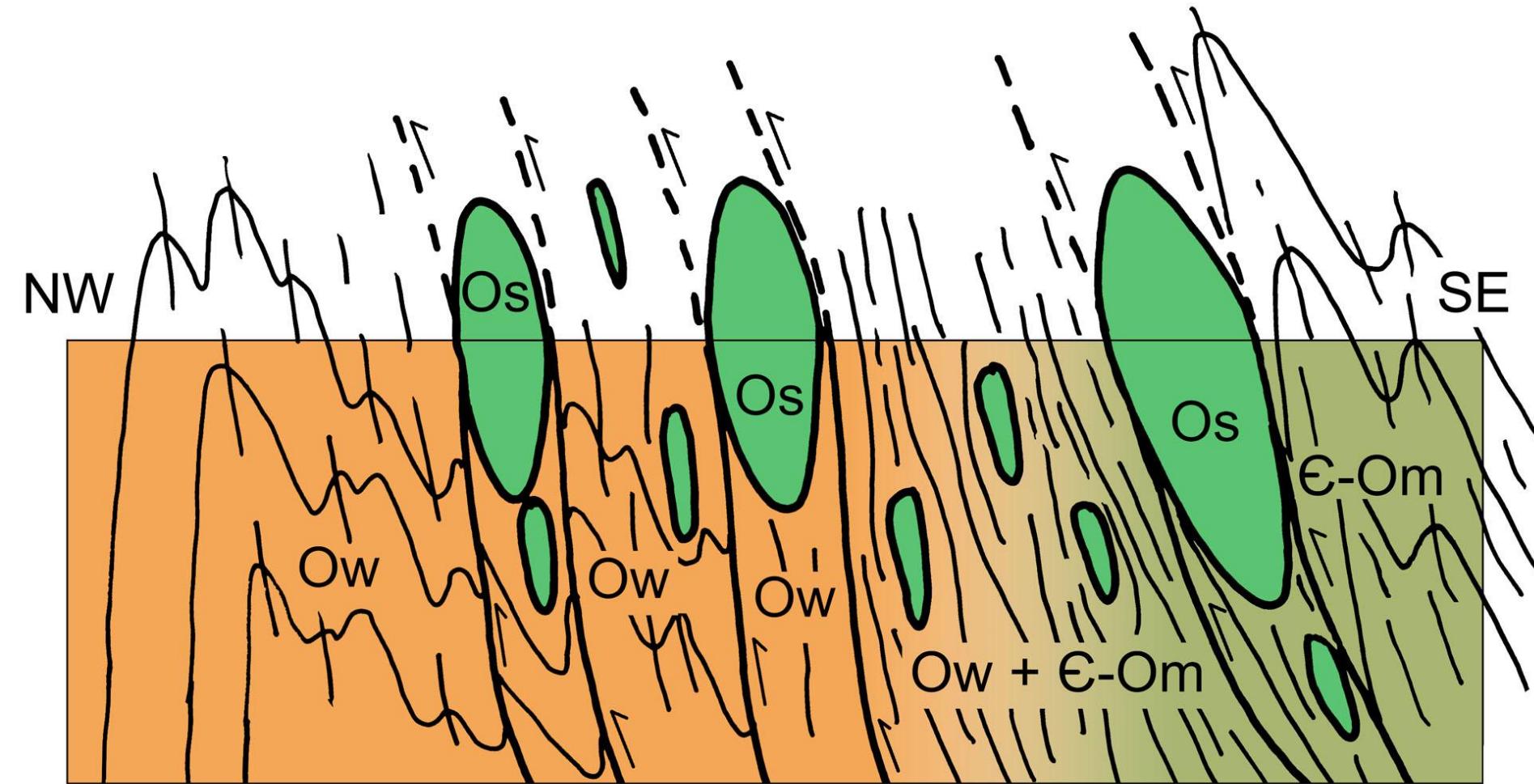


B-13



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St. Nicholas Thrust Zone

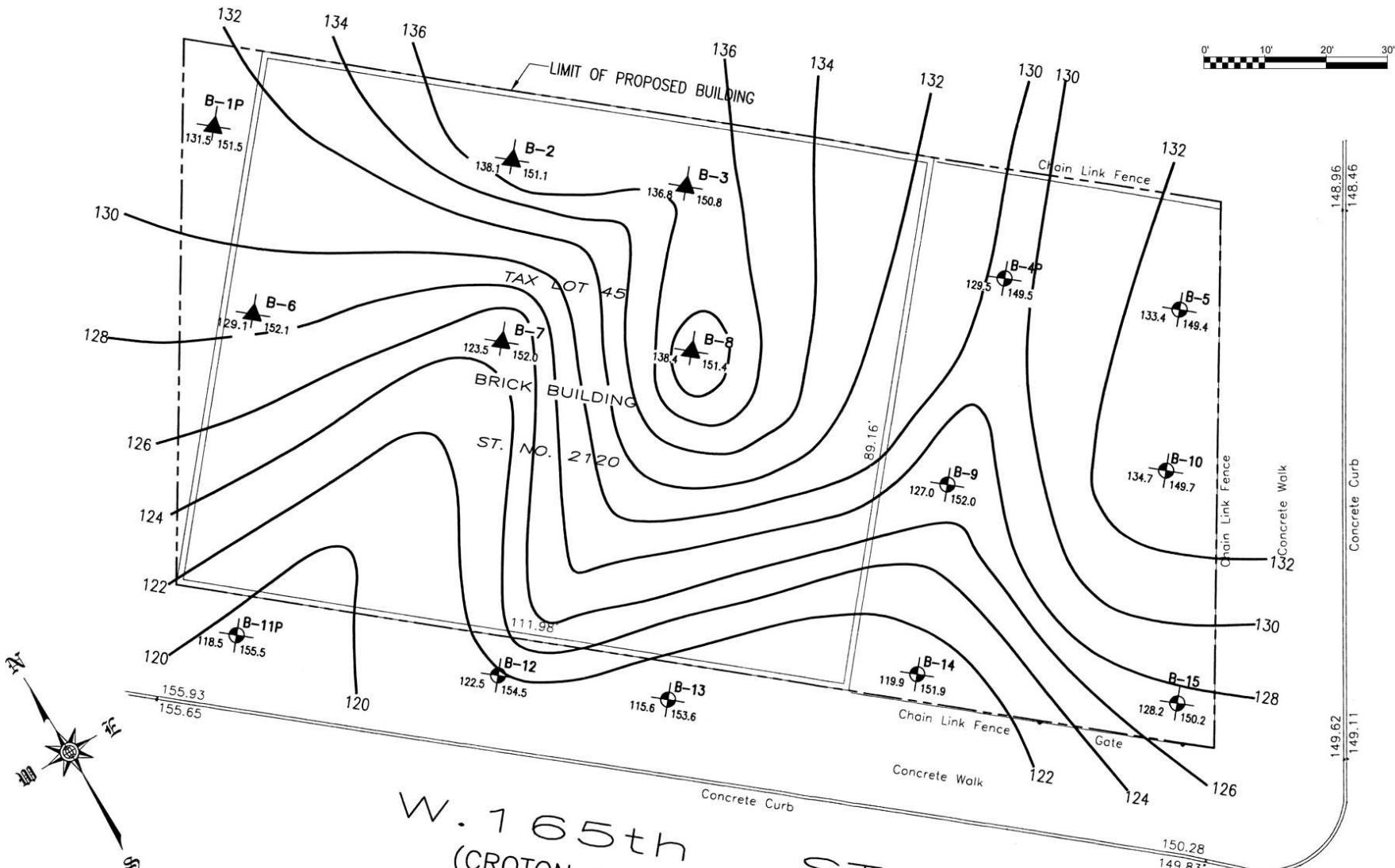
The map shows a coastal area with brown land and blue water. A green line, labeled 'Cameron's Line', runs from the upper left towards the lower right. A red dot marks the 'St. Nicholas Thrust Zone' on this line. Green dots are placed along the line at various points. A large green oval is located in the lower center.

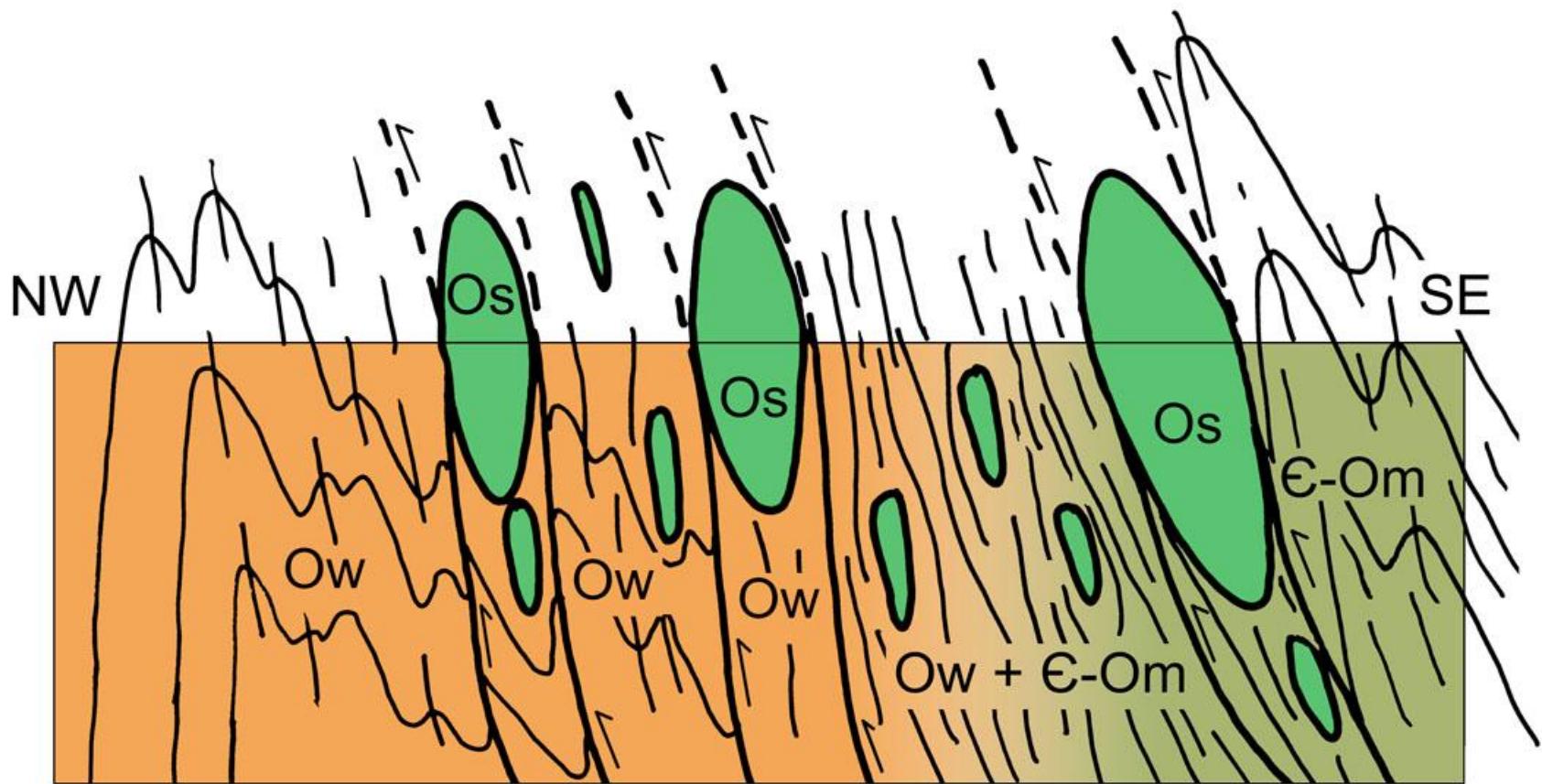
Cameron's Line

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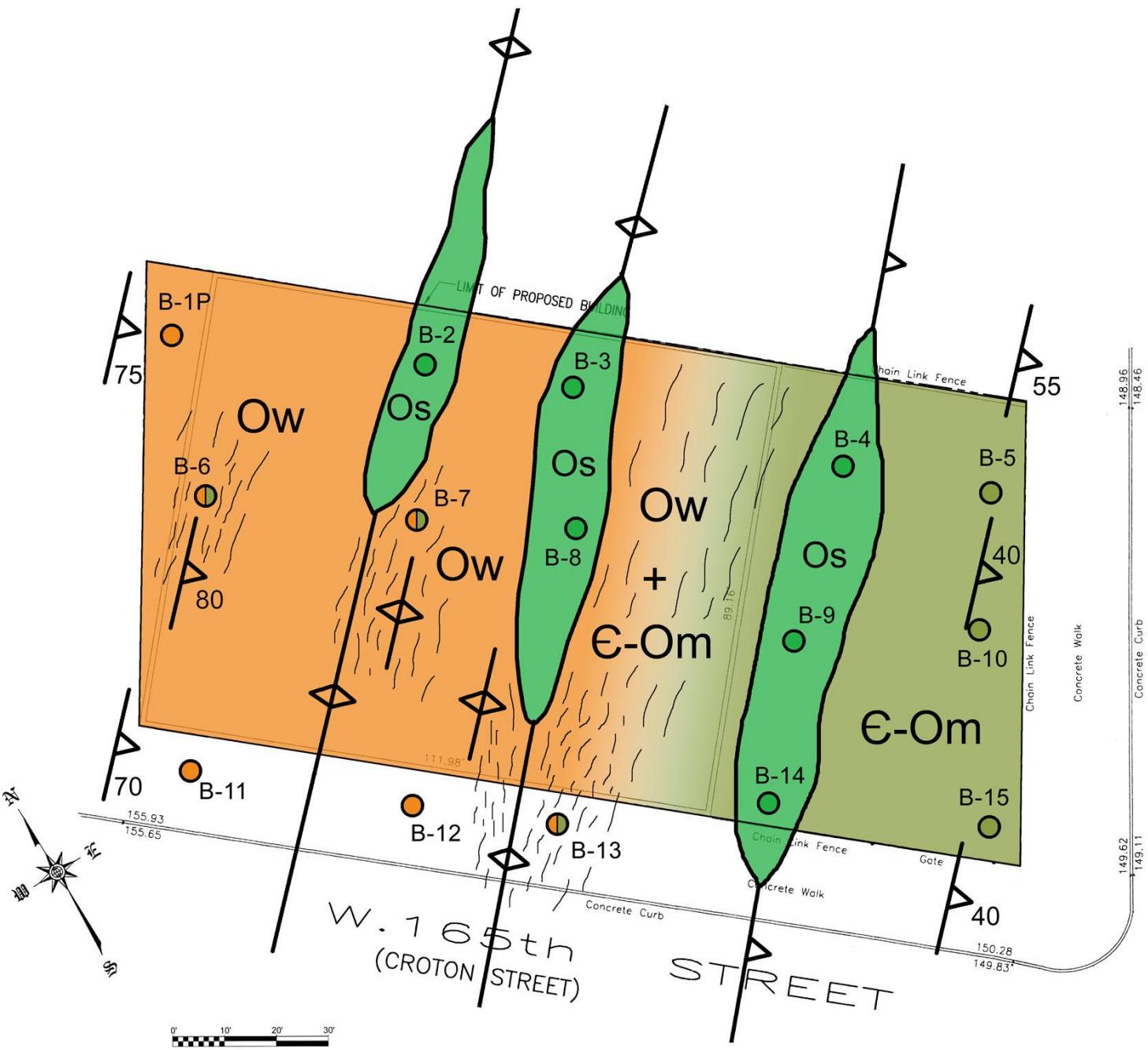
STREET

W. 165th
(CROTON STREET)





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0

.2 Mi

