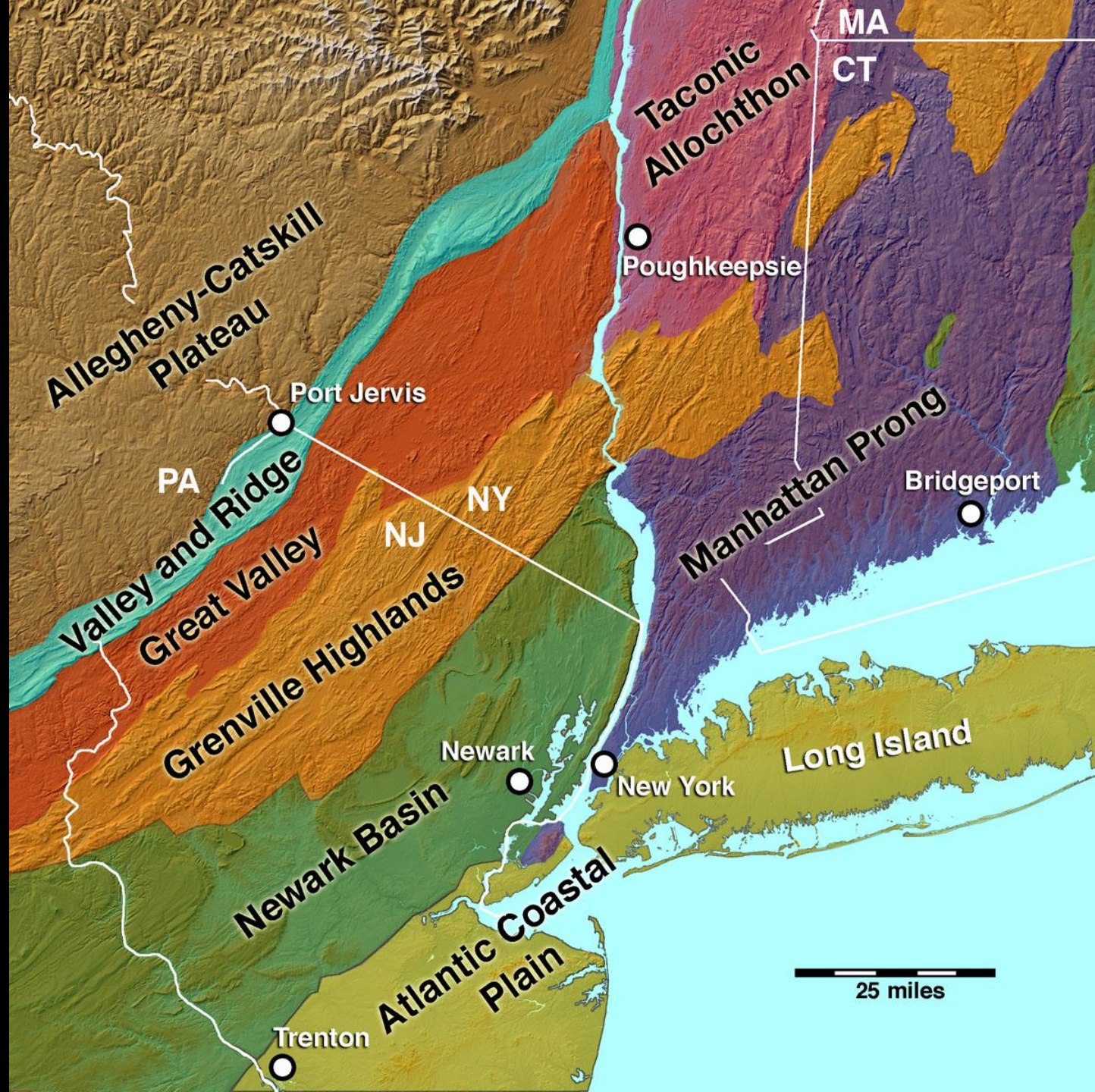


REDEFINING THE INTRUSIVE CONTACT BETWEEN THE YONKERS AND FORDHAM GNEISSES IN VAN CORTLANDT PARK, NYC

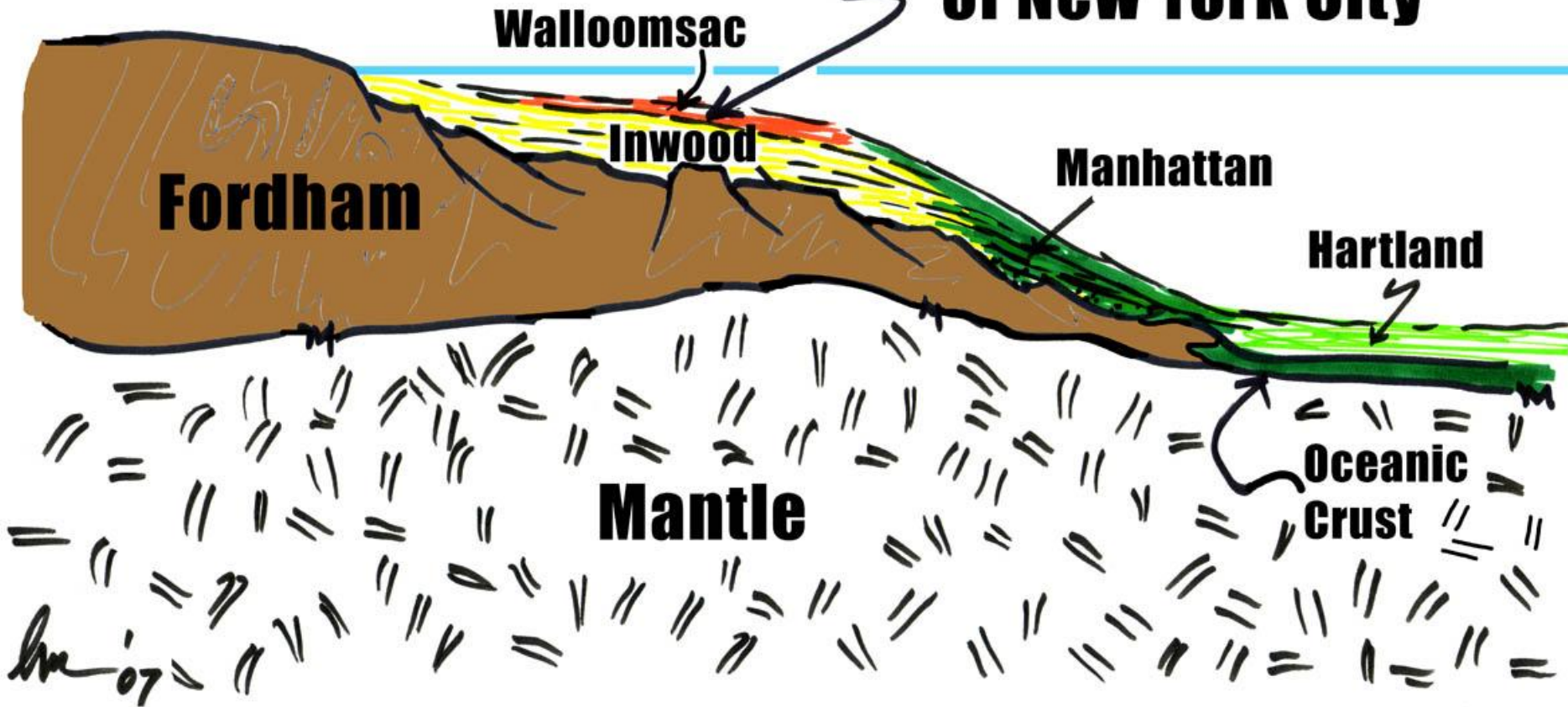
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MERGUERIAN, J. Mickey,
ISLER, Douglas, E.,
VELLONE, Daniel, A.,

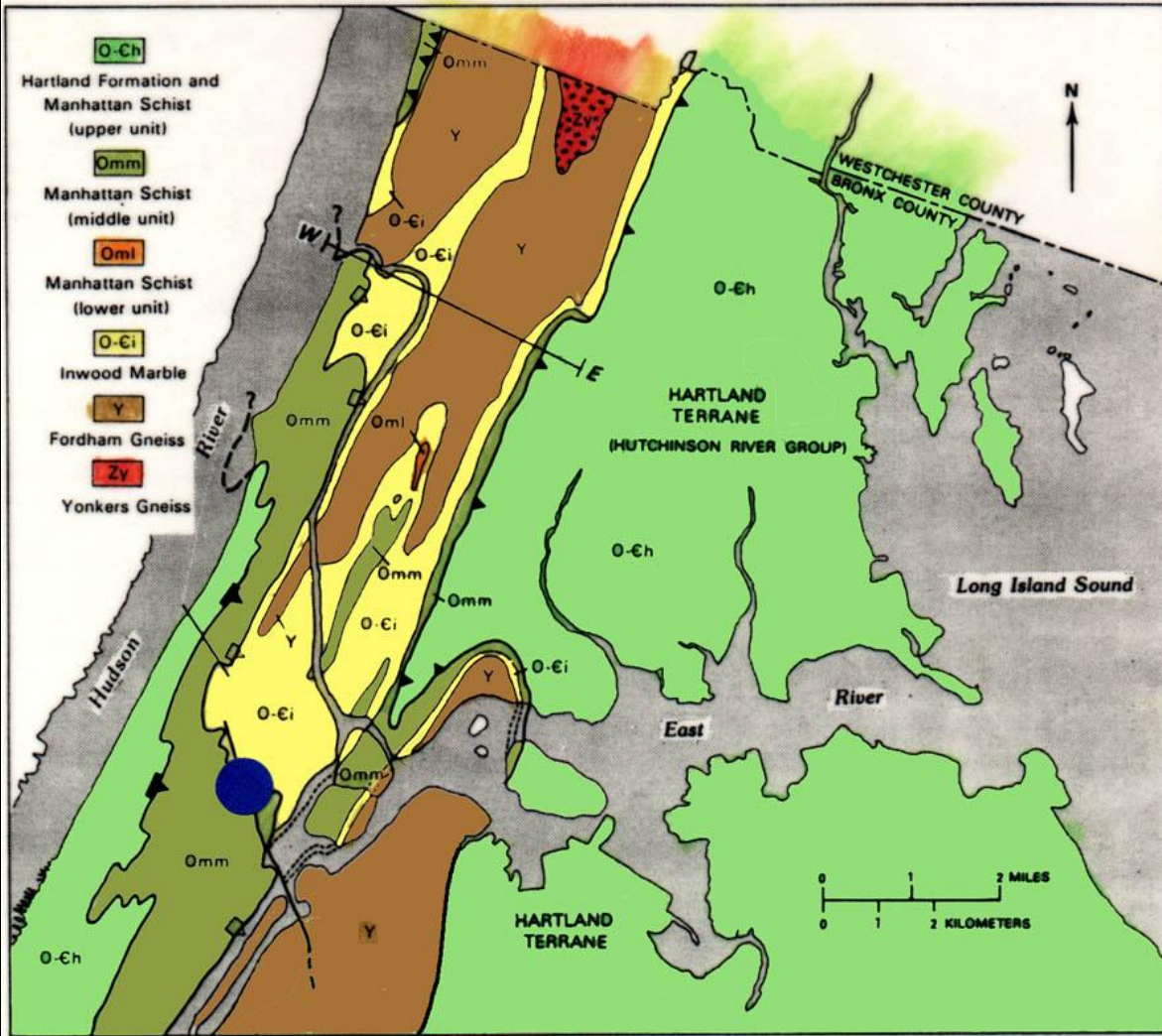




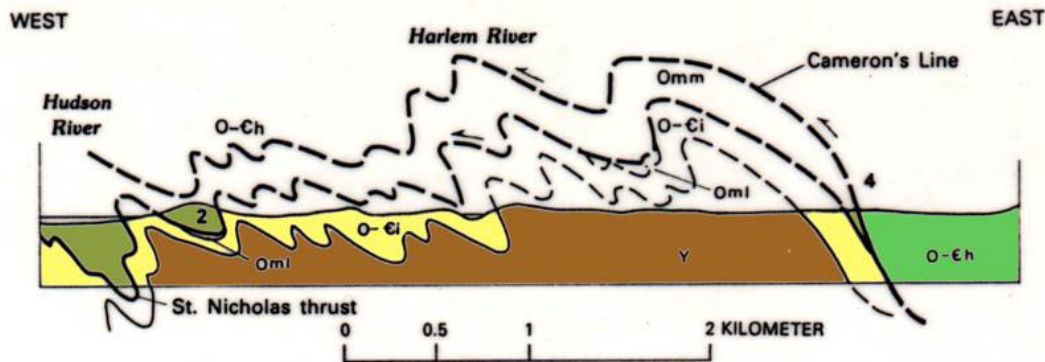
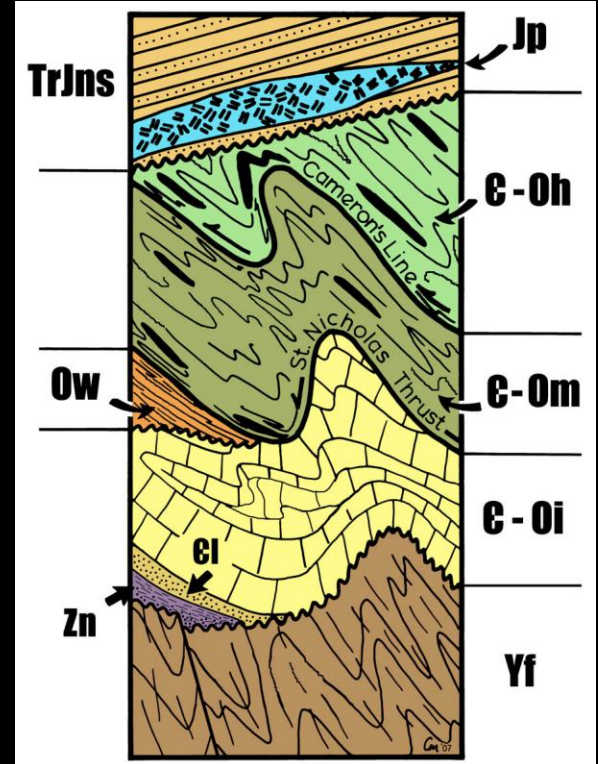


Future Site of New York City



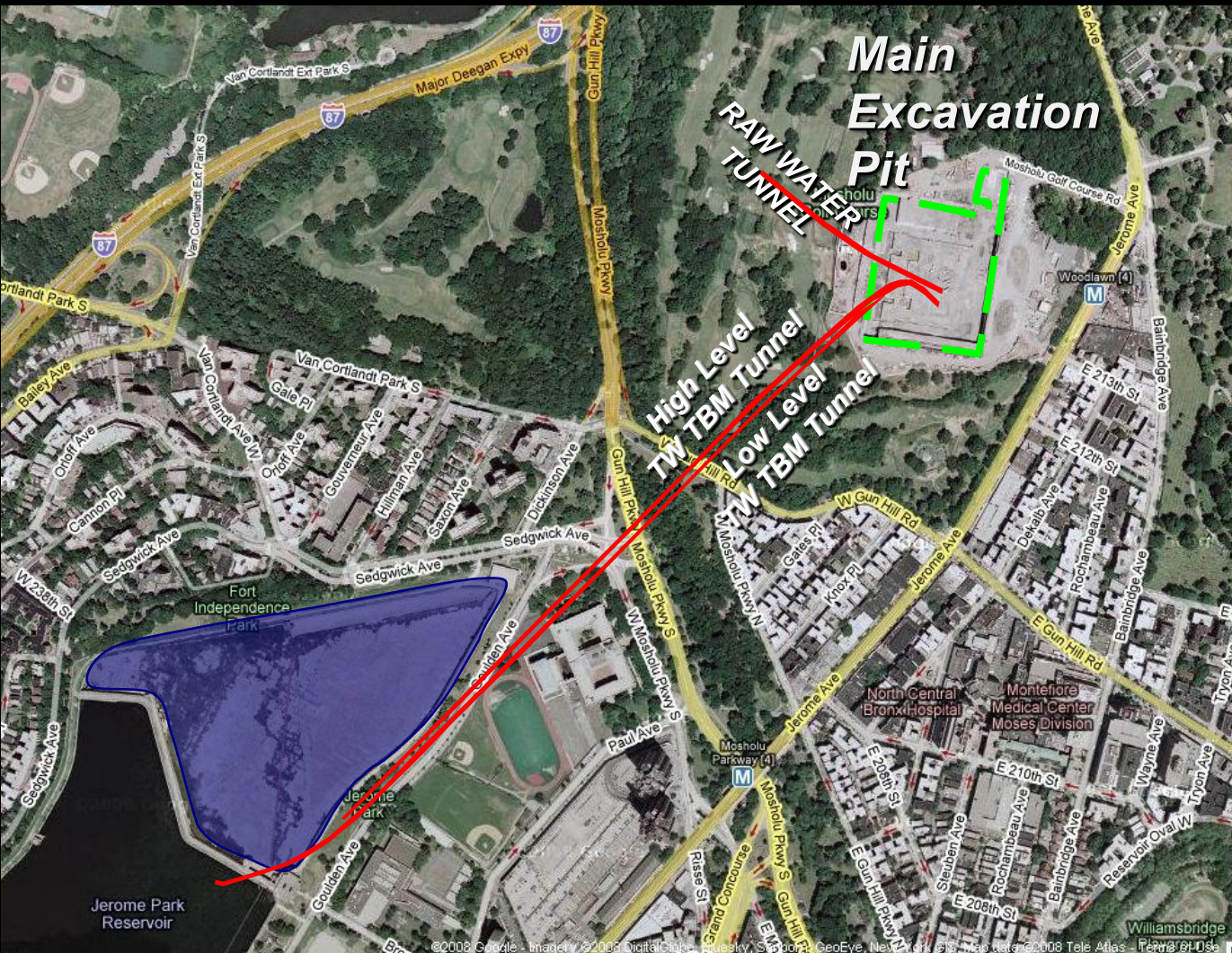


New York City



Merguerian, 2001

Tunnel Alignment



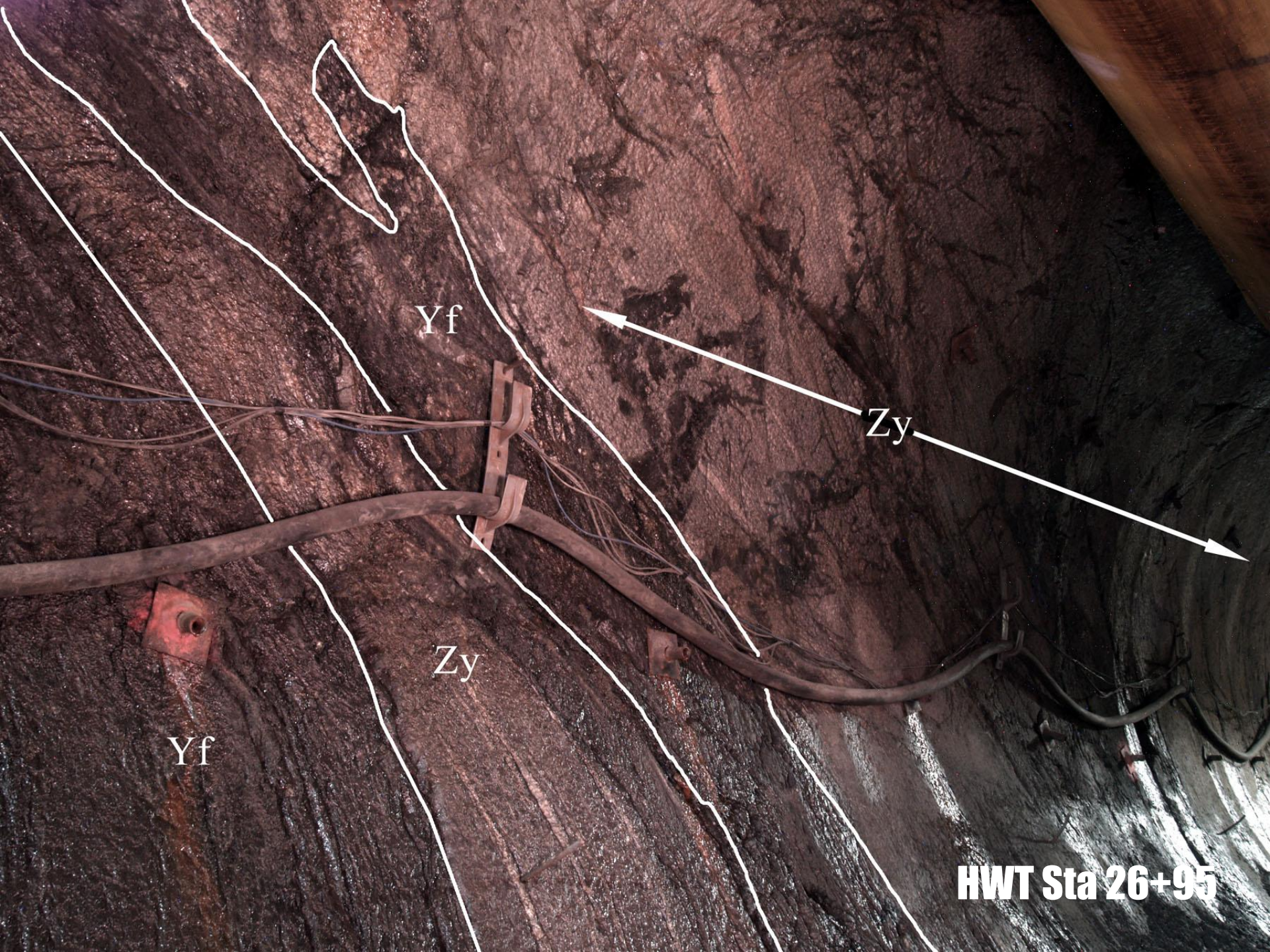
- Croton System Water flows into WTP via RWT from NCA
- Distribution via two TWTs to Bronx and Manhattan

High Water Treated Tunnel



Zy

HWT Sta 37+00



Yf

Zy

Zy

Yf

HWT Sta 26+95

Mosholu Fault



HWT Sta 26+75

Yf



HWT Sta 9+50

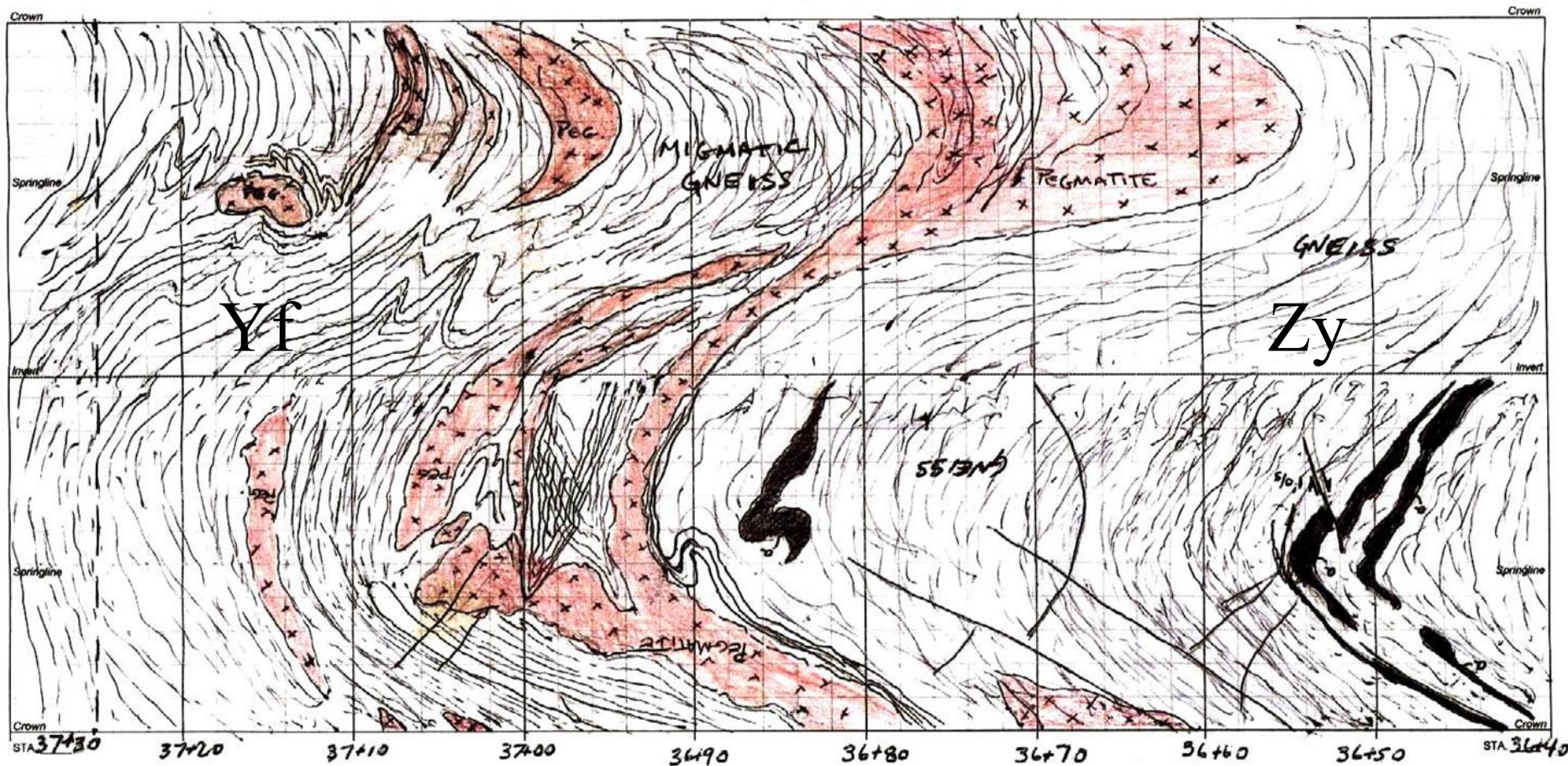


Low Water Treated Tunnel

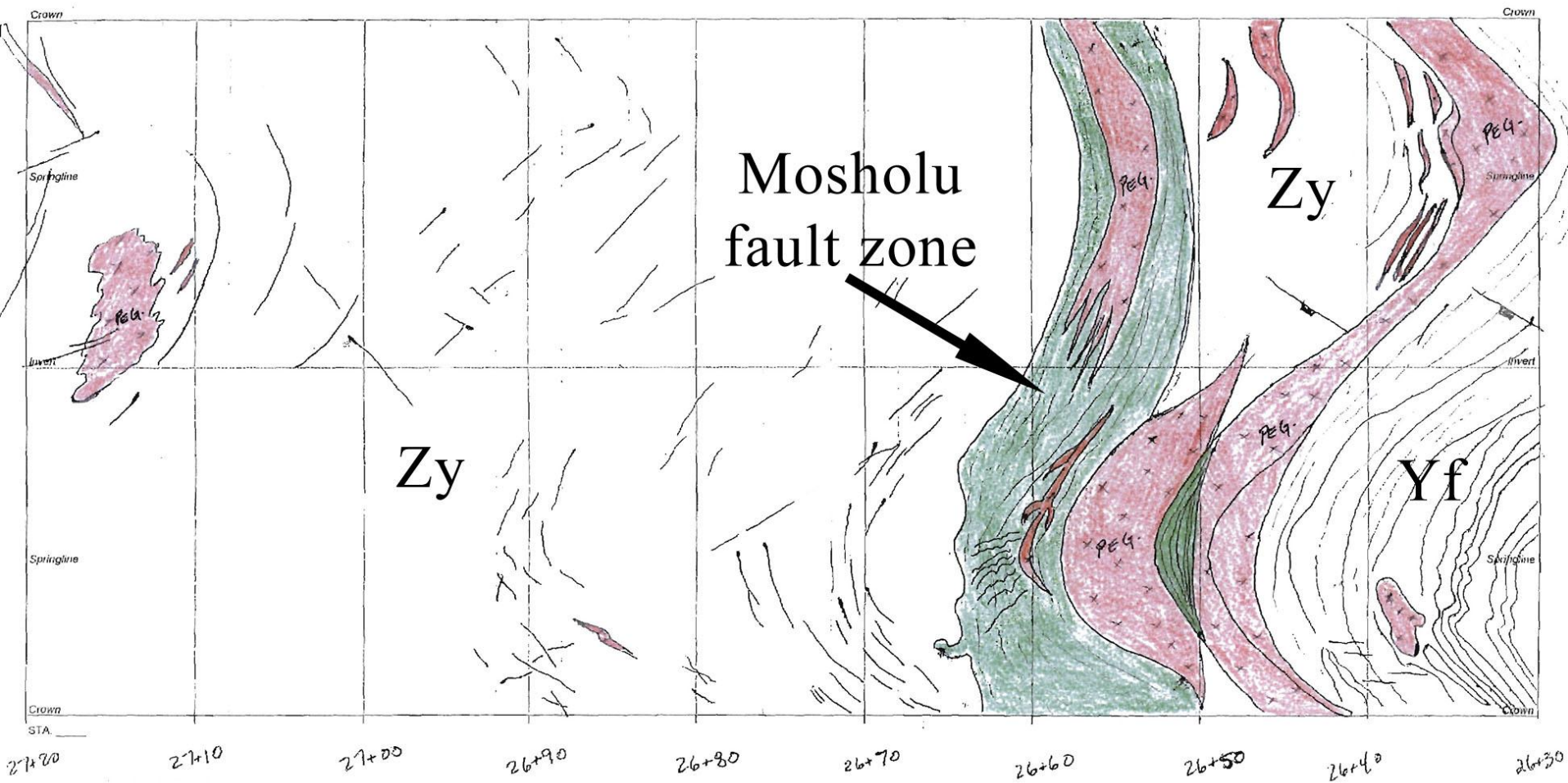


Geologic Sketch No. : 1
Beginning Station (ft.): 37+30
End Station (ft.): 36+40

Sketch Prepared By: Daniel Vellone, PG Date: 15 APRIL 2008
Sketch Reviewed By: Doug Isler, PG Date:



LWT Sta 37+30 - 36+40



LWT Sta 27+20 - 26+30

Yf Screen in Zy



LWT Sta 34+90

Yf

LWT Sta 7+20

Yf

LWT Stub End – Dec 2008



Yf

LWT Stub End – Dec 2008



YI

LWT (NCA) – Jan 2009

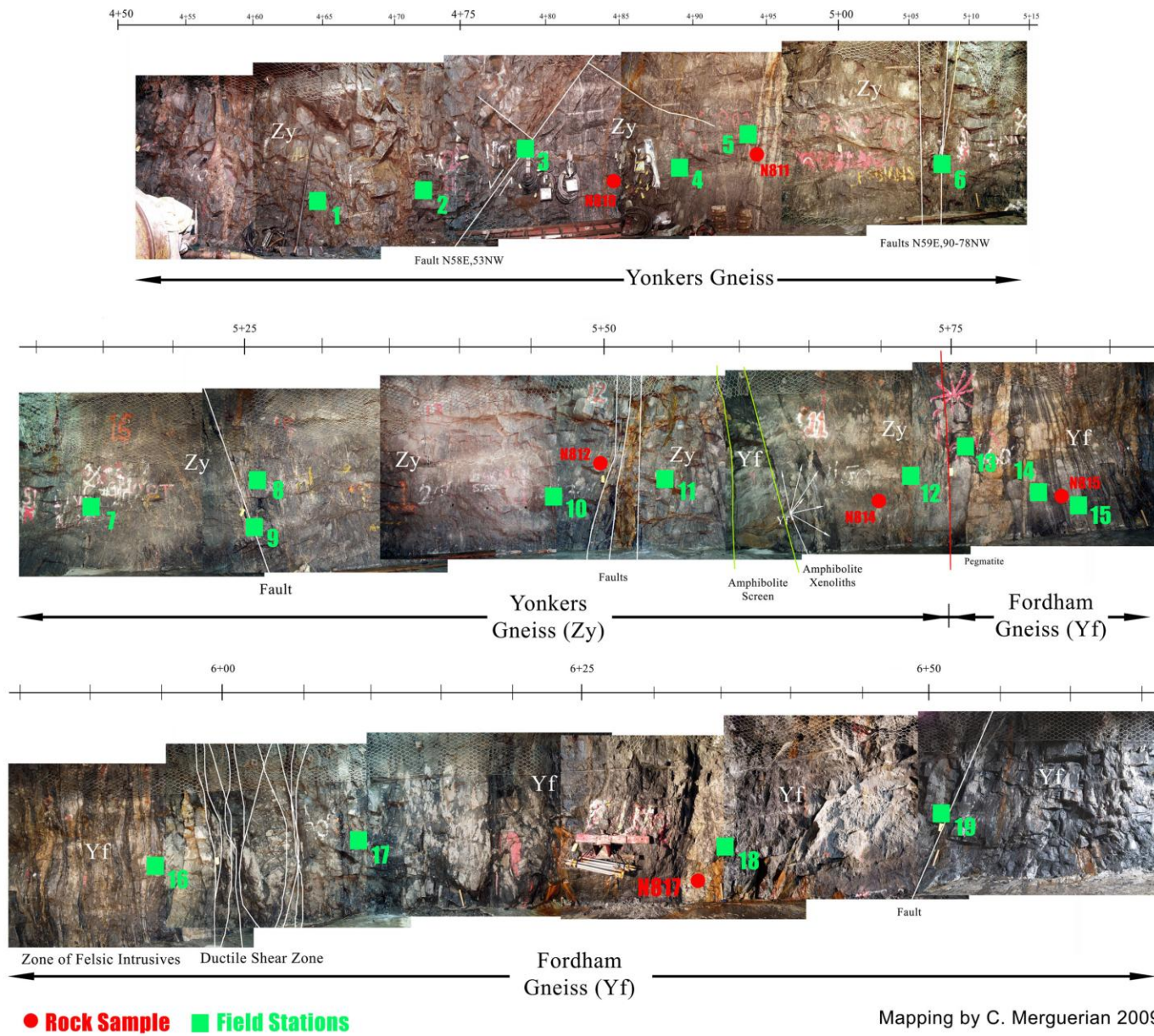


LWT (NCA) – Jan 2009

Raw Water Tunnel



New Croton Water Treatment Plant, Bronx New York - North Wall Raw Water Tunnel, Stations 4+50 to 6+65



Zy

Sta 488 - 500



Zy

Sta 550 - 562



Yf

11

Zy

Yf

15

Yf

Sta 562 - 575



Sta 565



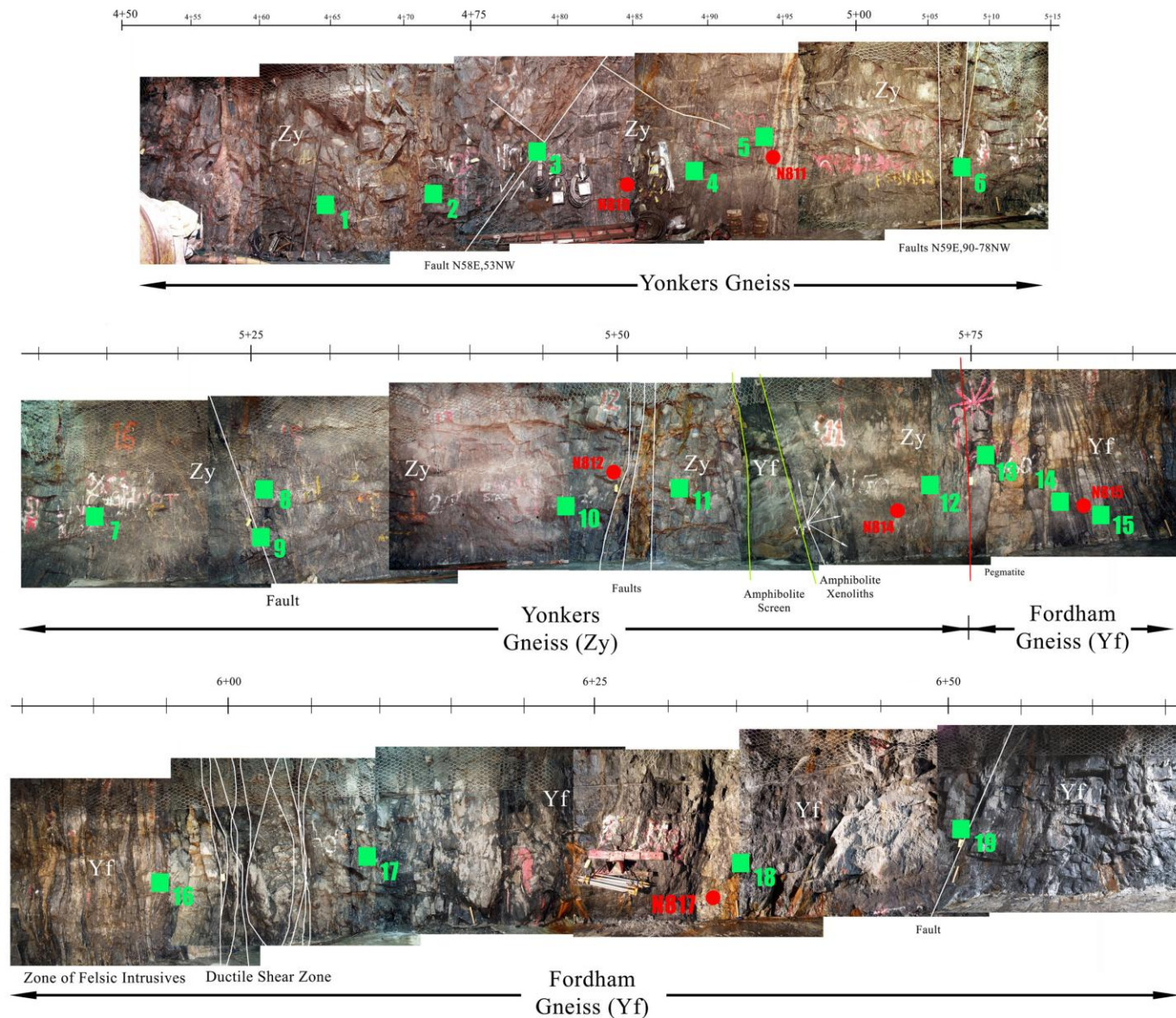
Yf

Sta 588 - 600



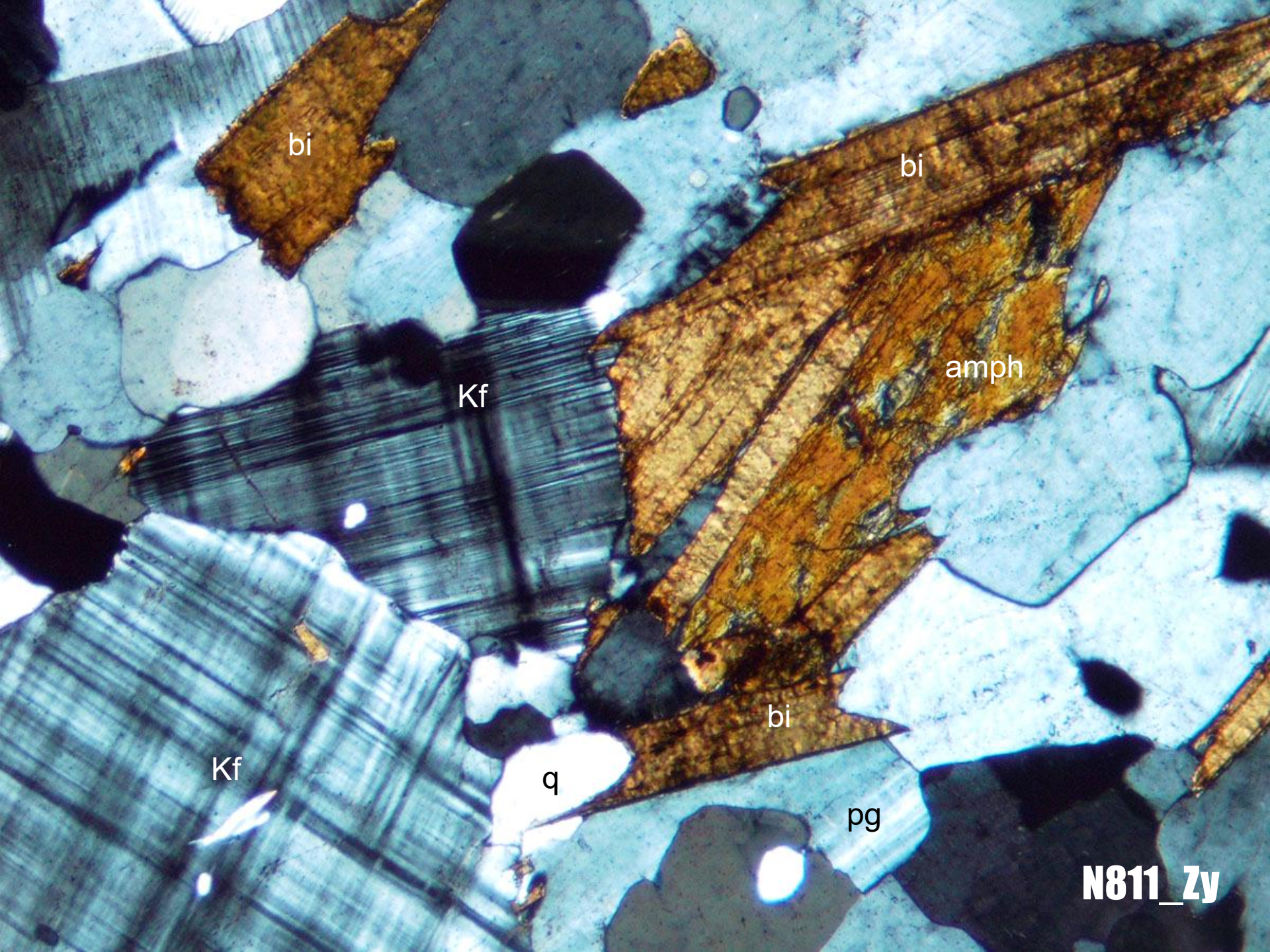
Sta 600-613

New Croton Water Treatment Plant, Bronx New York - North Wall Raw Water Tunnel, Stations 4+50 to 6+65

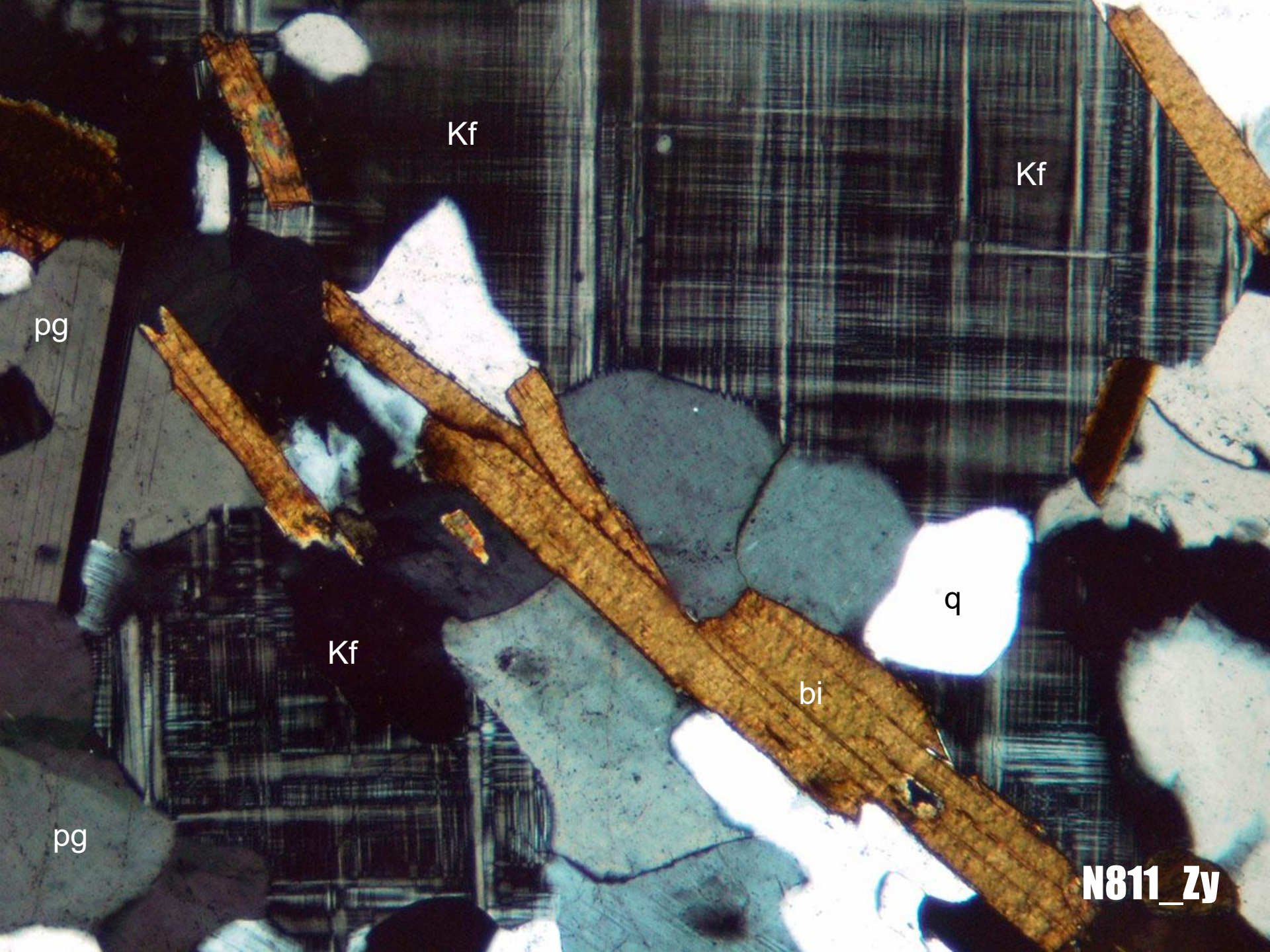


● Rock Sample ■ Field Stations

Mapping by C. Merguerian 2009



N811_Zy



Kf

Kf

pg

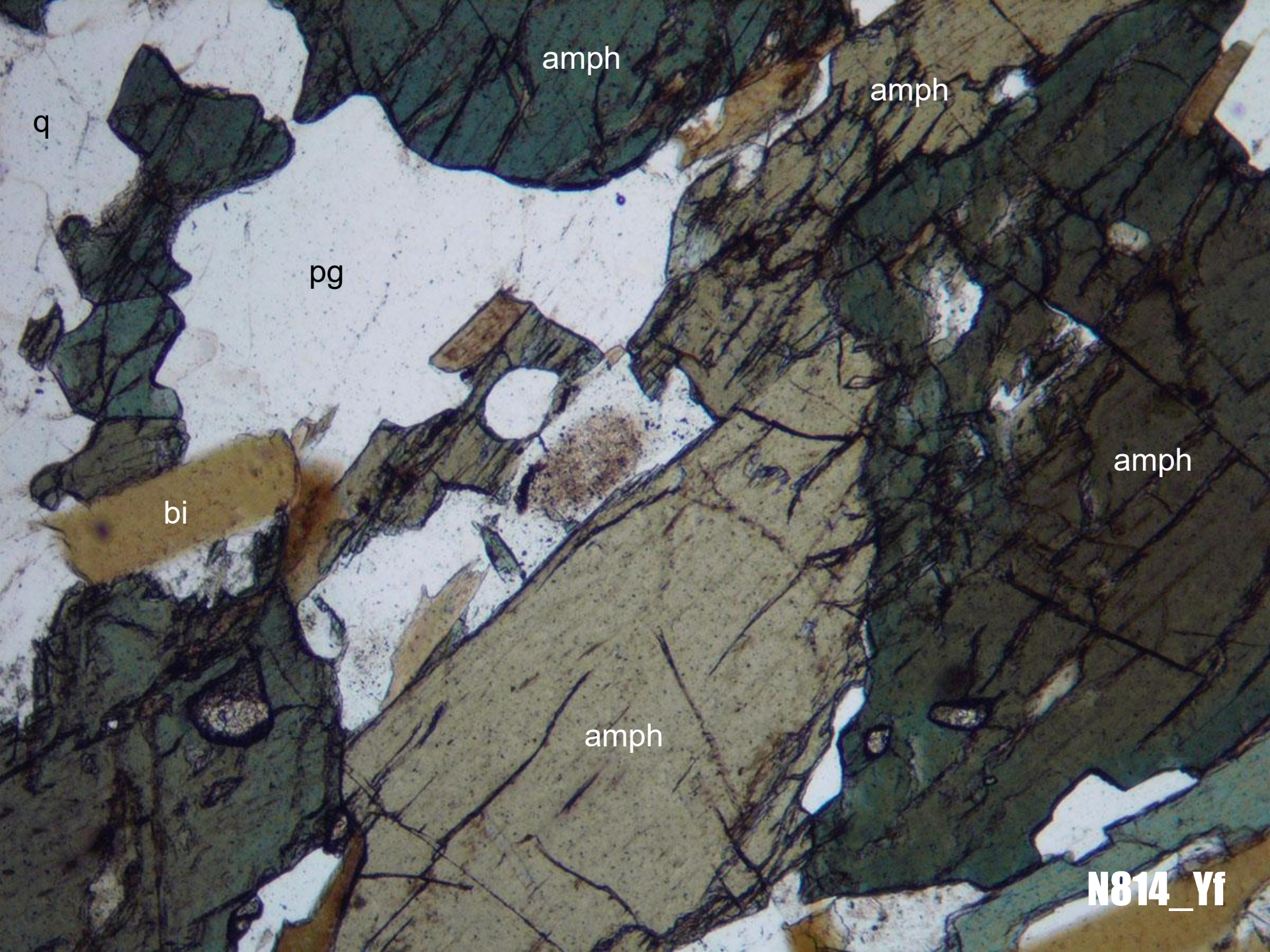
Kf

q

bi

pg

N811_Zy



amph

amph

q

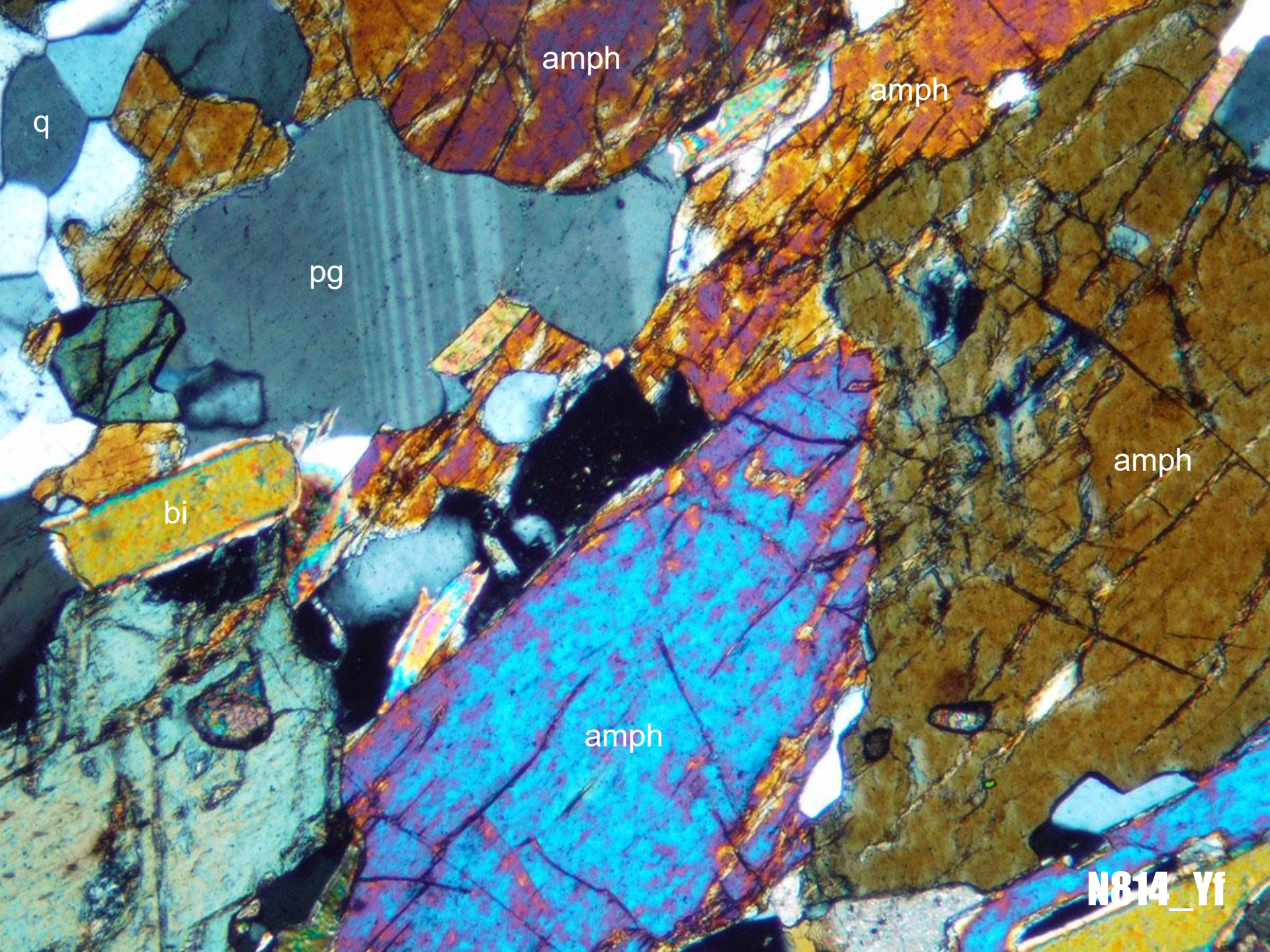
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amph

amph

N814_Yf



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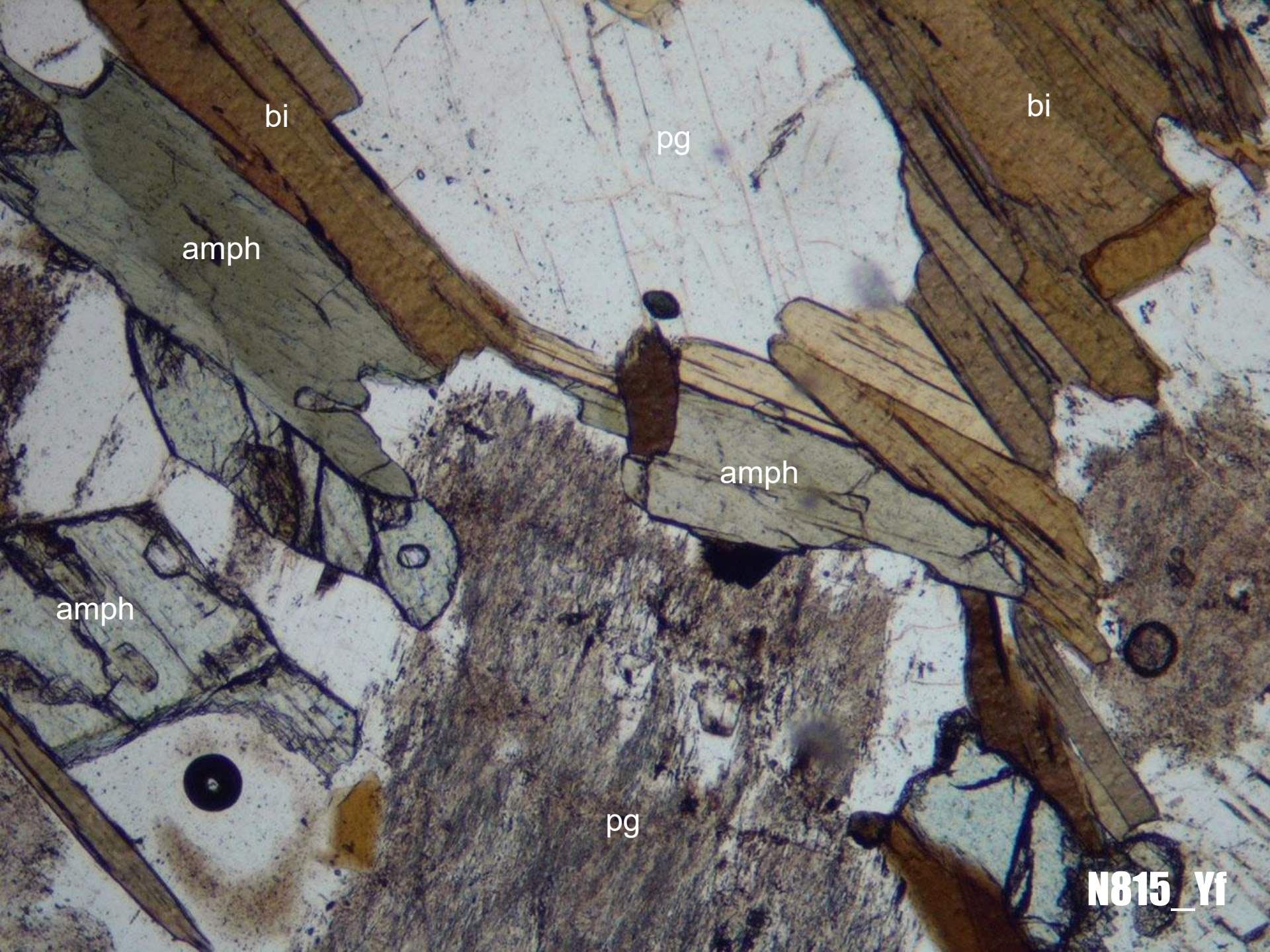
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N814_Yf



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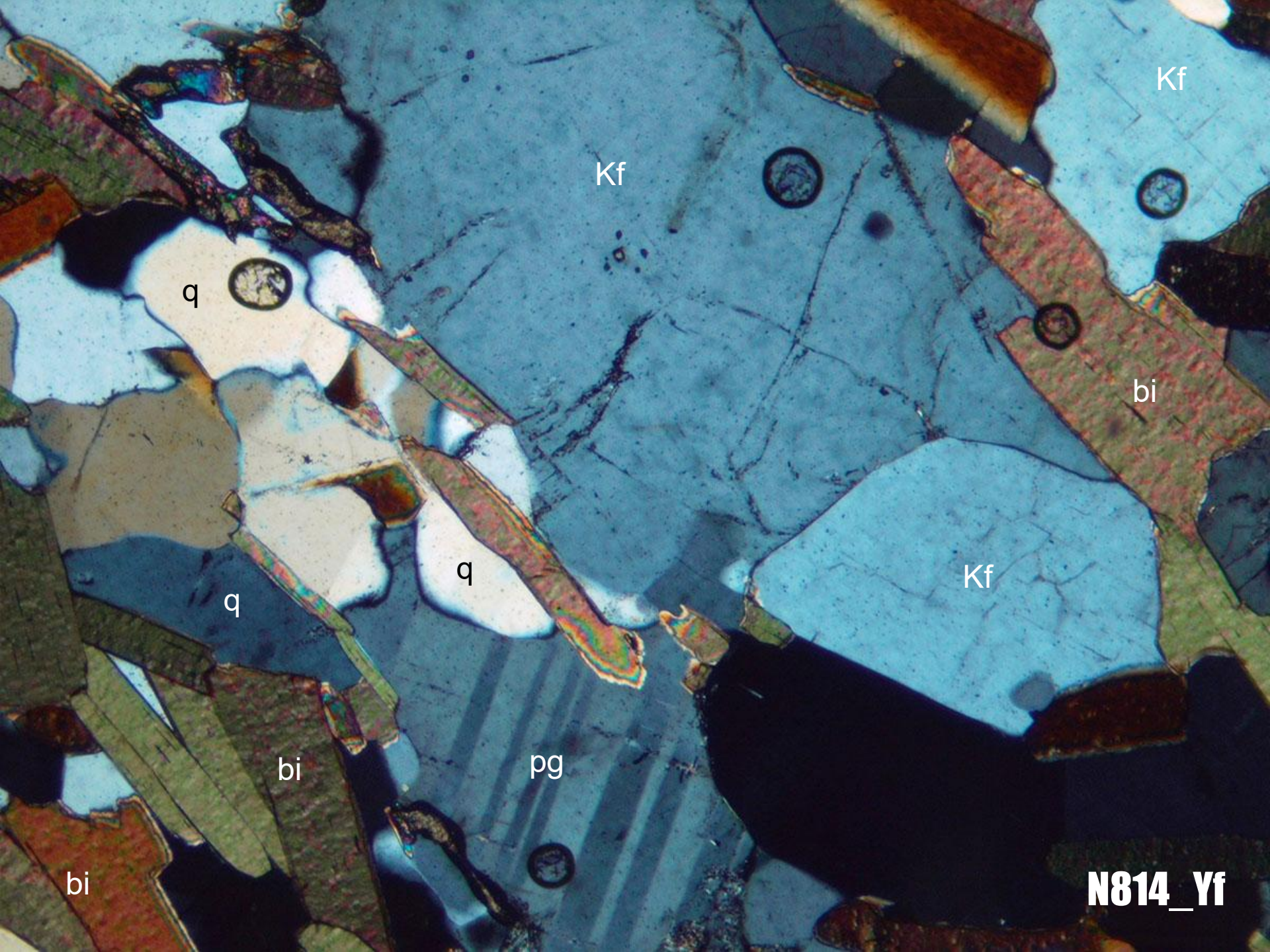
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amph

amph

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N815_Yf



Kf

Kf

q

bi

Kf

q

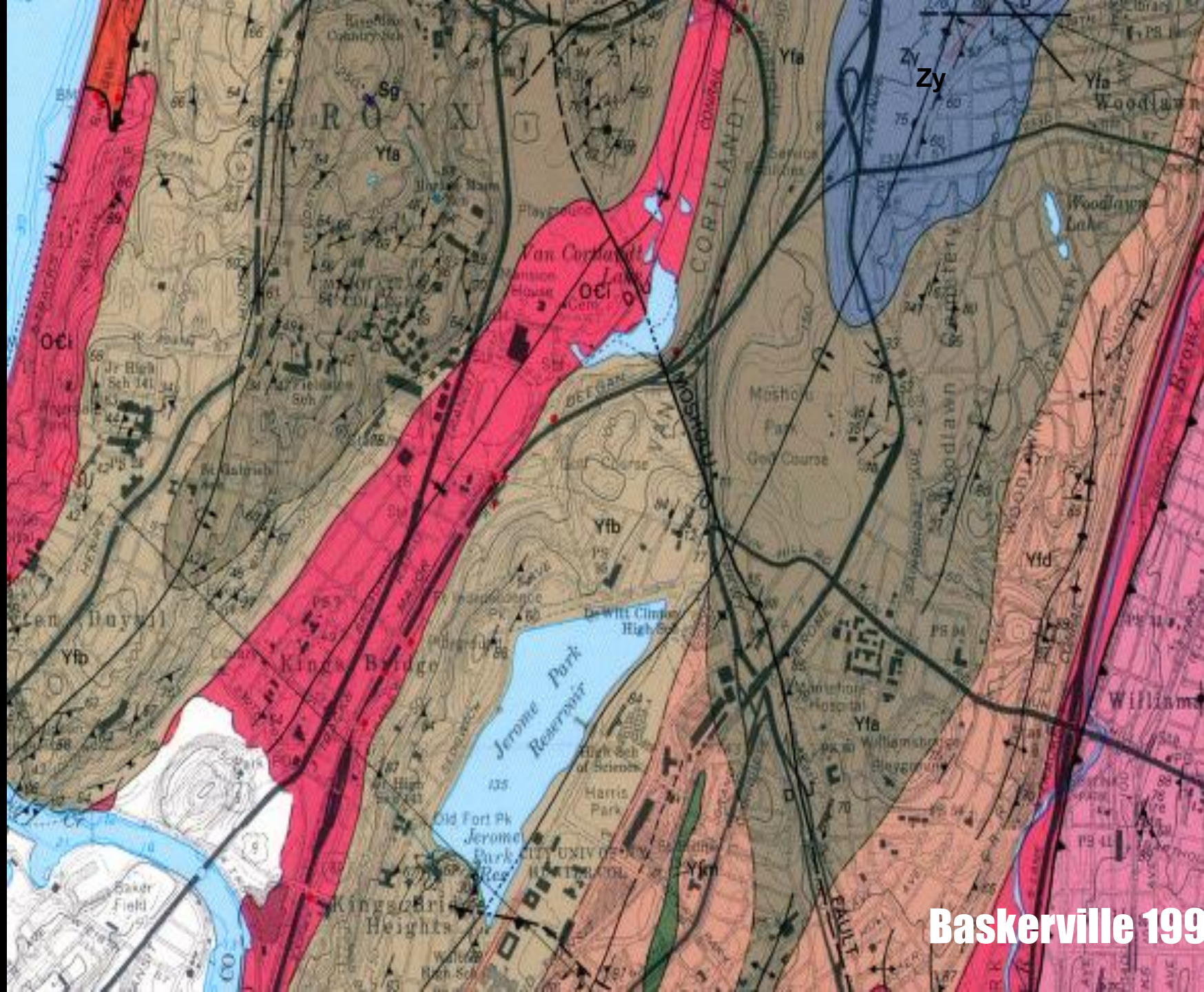
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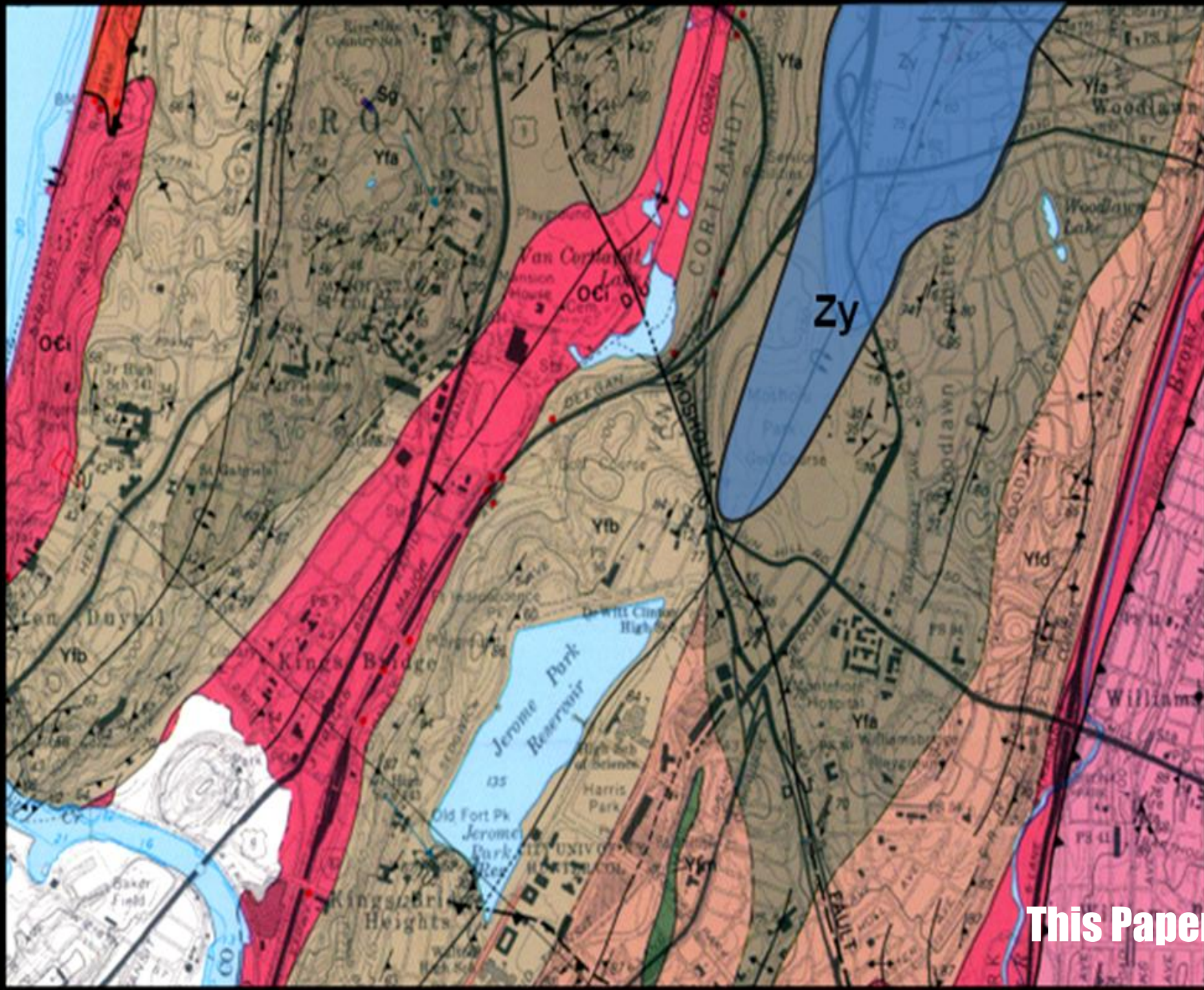
pg

bi

N814_Yf



Baskerville 1992



This Paper

