

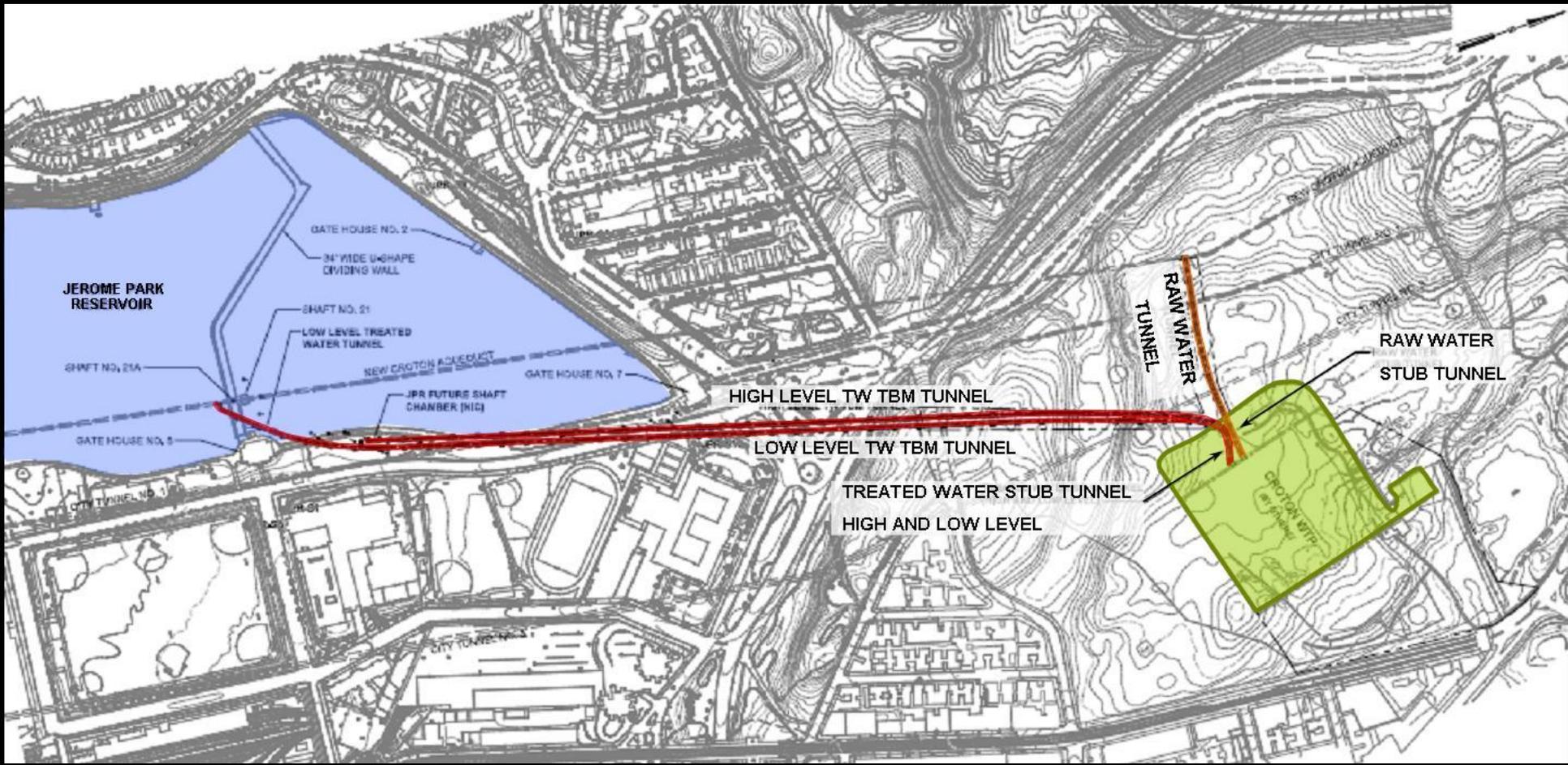
REDEFINING THE SOUTHERN TERMINUS OF THE INTRUSIVE CONTACT BETWEEN THE YONKERS AND FORDHAM GNEISS IN VAN CORTLANDT PARK, NEW YORK CITY, NEW YORK

**ISLER, Douglas, E.,
VELLONE, Daniel, A.,
MERGUERIAN, Charles; and
MERGUERIAN, J. Mickey**

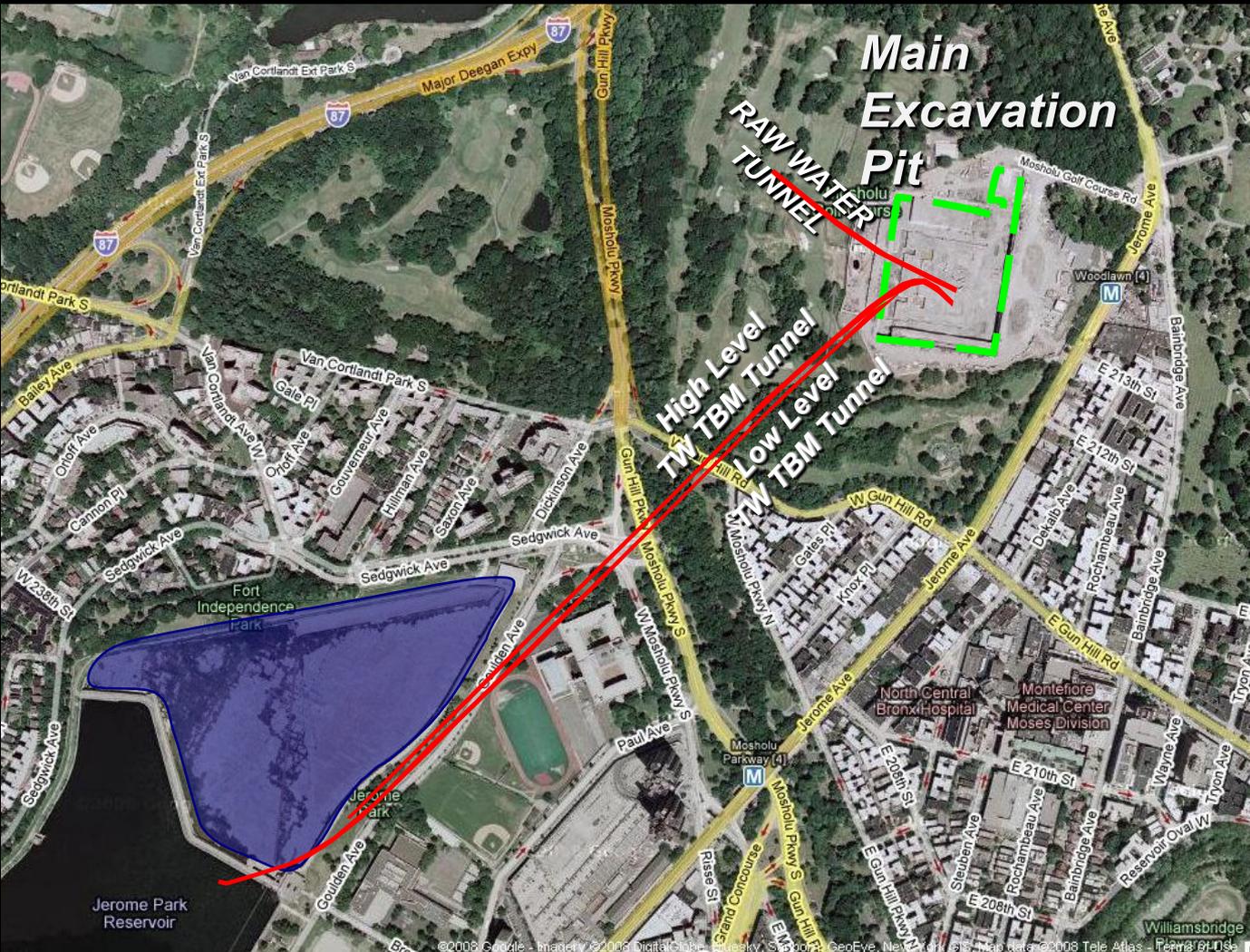




Croton Water Treatment Plant



Tunnel Alignment



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



High Water Treated Tunnel



Zy



HWT Sta 37+00

Zy



HWT Sta 26+95



Yf

Zy

Zy

Yf

HWT Sta 26+95

Mosholu Fault



HWT Sta 26+75

Mosholu Fault – Sta 26+75 HWT



Yf

382

382

HWT Sta 11+15



Yf



HWT Sta 10+00

Yf



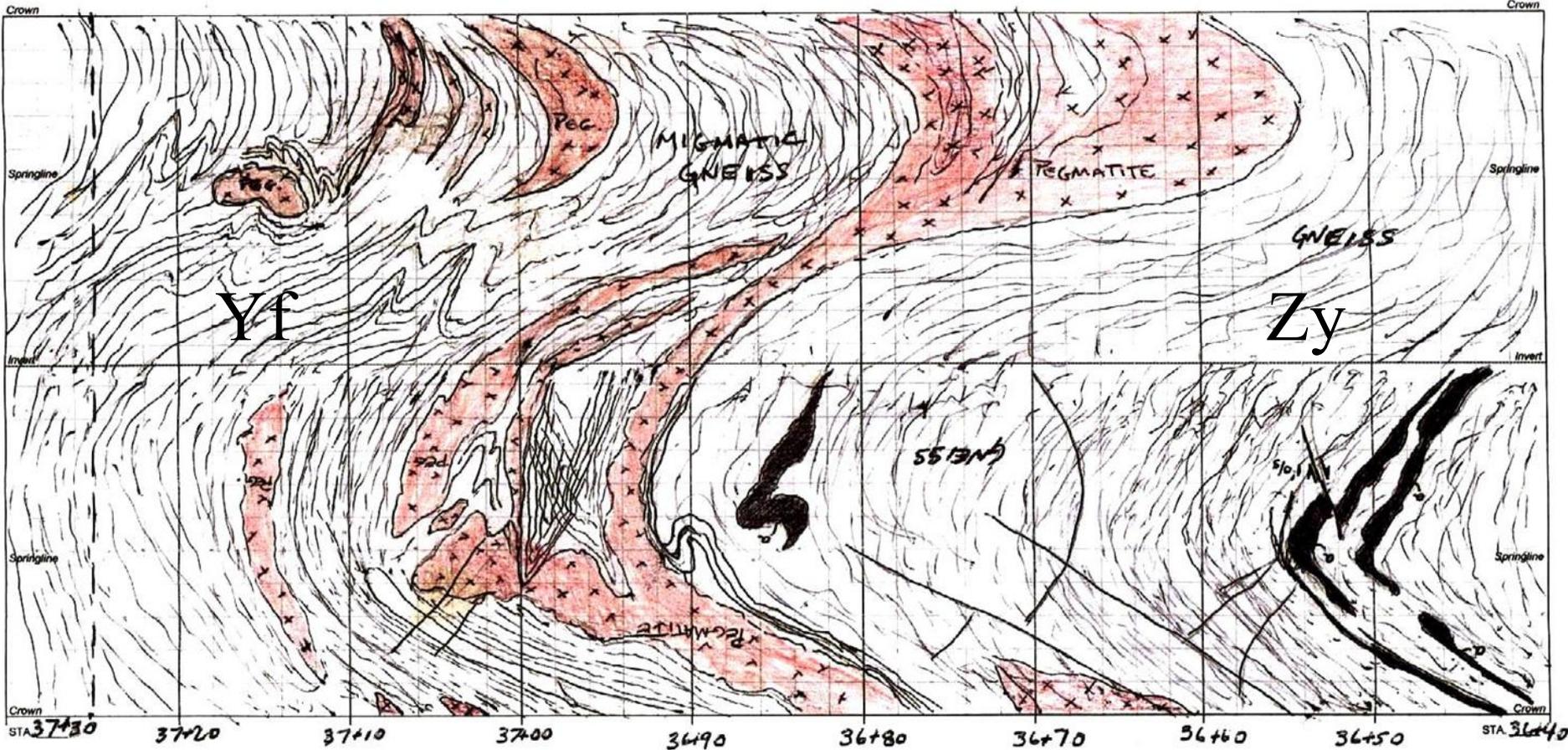
HWT Sta 9+50

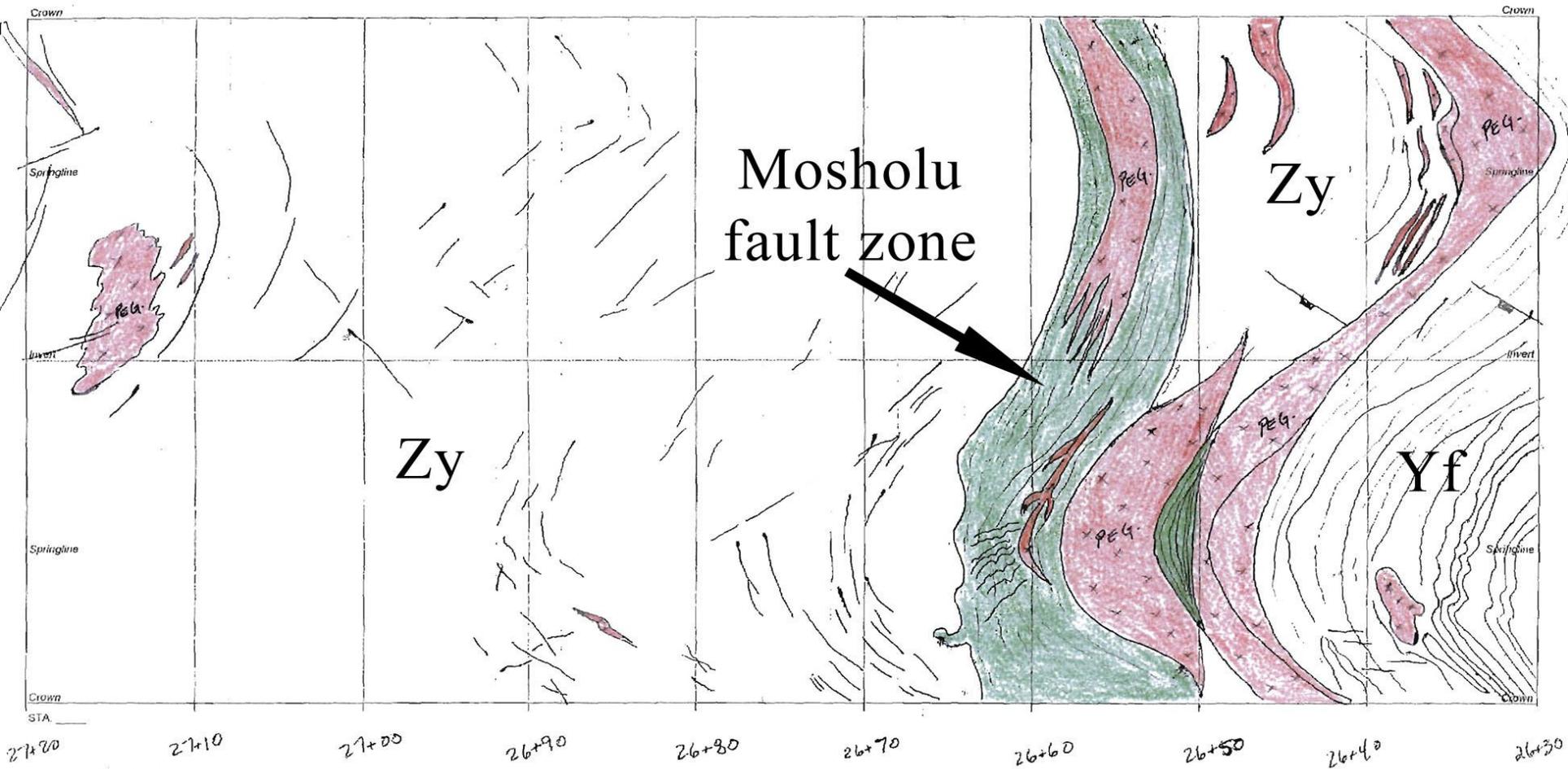
Low Water Treated Tunnel



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 27+20 - 26+30

Zy



LWT Sta 34+90



Zy

LWT Sta 34+90



Zy

LWT Sta 26+75

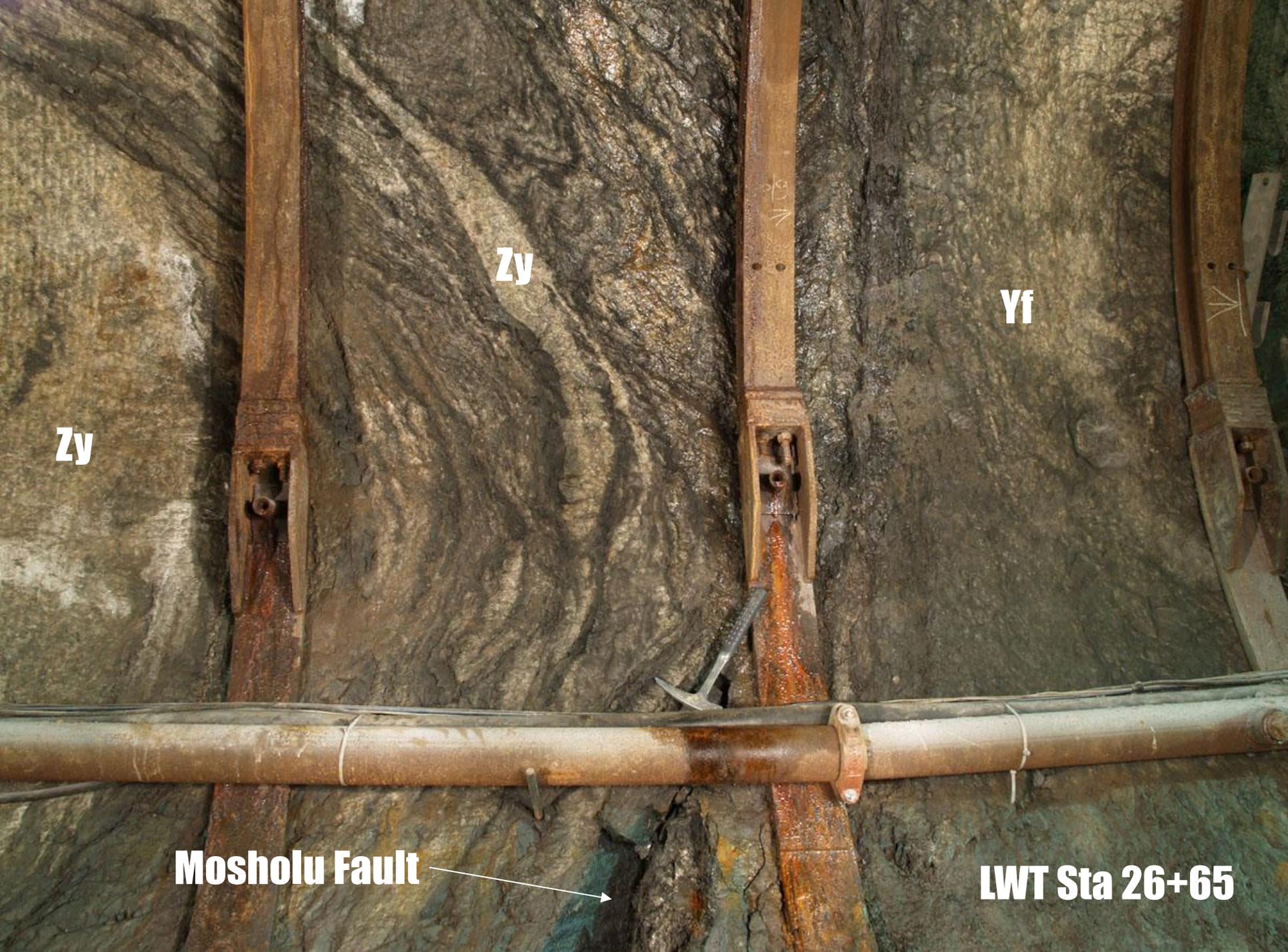
Zy

Zy

Yf

Mosholu Fault

LWT Sta 26+65



Mosholu Fault



LWT Sta 26+57



Yf

LWT Sta 26+45

Yf



LWT Sta 26+45

Yf

LWT Sta 25+30



Yf



LWT Sta 7+20

Yf

LWT Stub End – Dec 2008



Yf



LWT Stub End – Dec 2008



YI

LWT (NCA) – Jan 2009

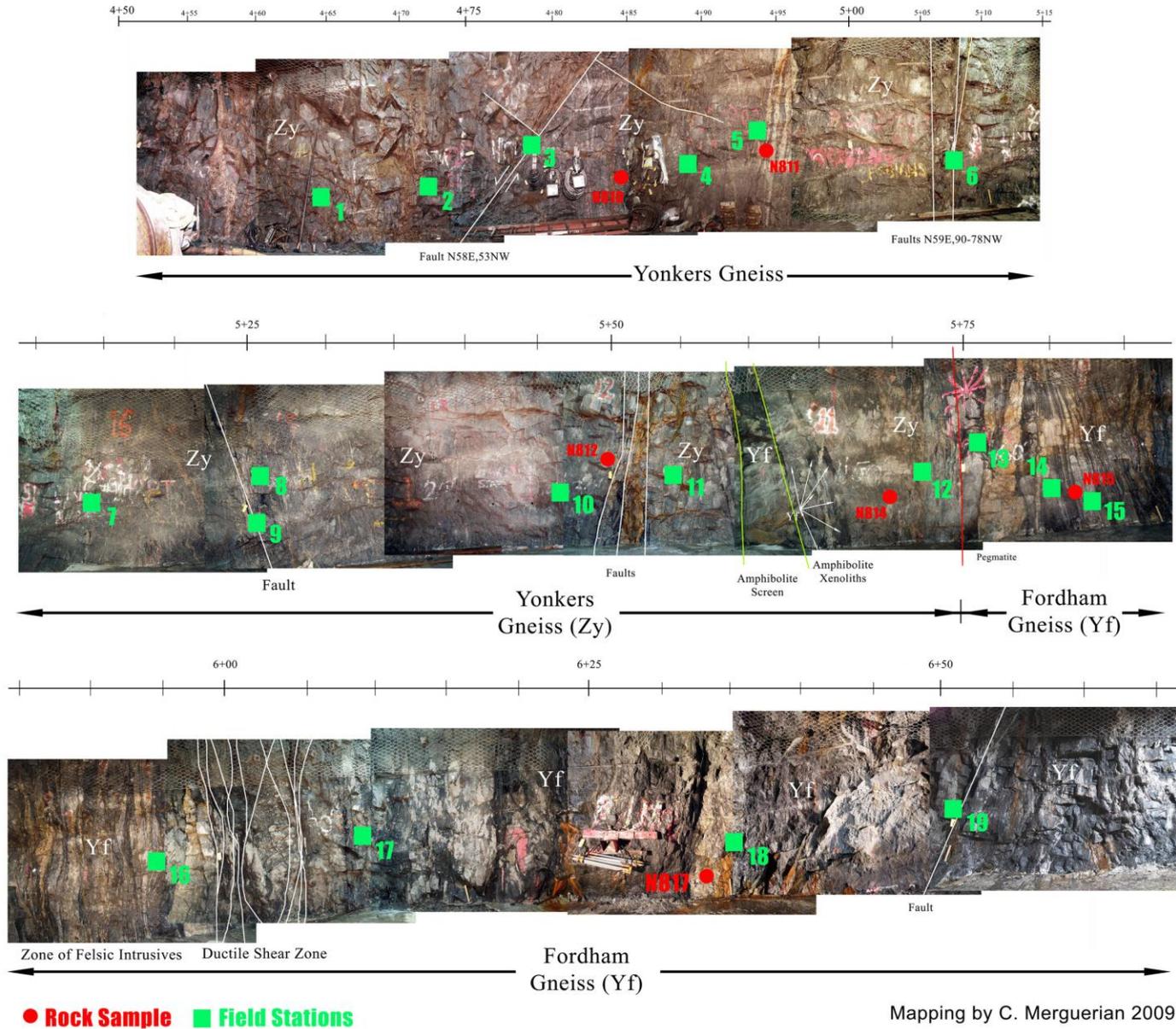


LWT (NCA) – Jan 2009

Raw Water Tunnel



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





Zy

Sta 450 - 463



Zy

Sta 462 - 4/5



Zy

Sta 475 - 488

Zy

207
PROF
F

Sta 488 - 500



Zy

PERFORATED

PERFORATED
FURNACE

Sta 495 - 512

15

Zy

Handwritten markings on rock face, including "15" in red above the mesh, and "S-11-V" in red and white below the mesh. Other faint markings include "25" and "H10T".

Sta 512 - 525



Zy

Sta 525 - 538



Zy

Sta 538 - 550



Zy

Sta 550 - 562



Yf

11

Zy

Yf

Yf

Sta 562 - 575



Zy

Yf

Sta 565



Sta 575 - 588



Yf

Sta 588 - 600



Yf

Sta 600 - 612



Yf

Sta 612 - 625

A photograph of a rock face in a tunnel. The rock is dark grey and brown, with some reddish and yellowish staining. A white mesh is visible at the top. On the left, there is a red metal structure and a bundle of pipes. The text 'Yf' is on the right, and 'Sta 625 - 638' is at the bottom right.

Yf

Sta 625 - 638



Yf

Sta 638 - 650



Yf

Sta 650 - 663



Yf

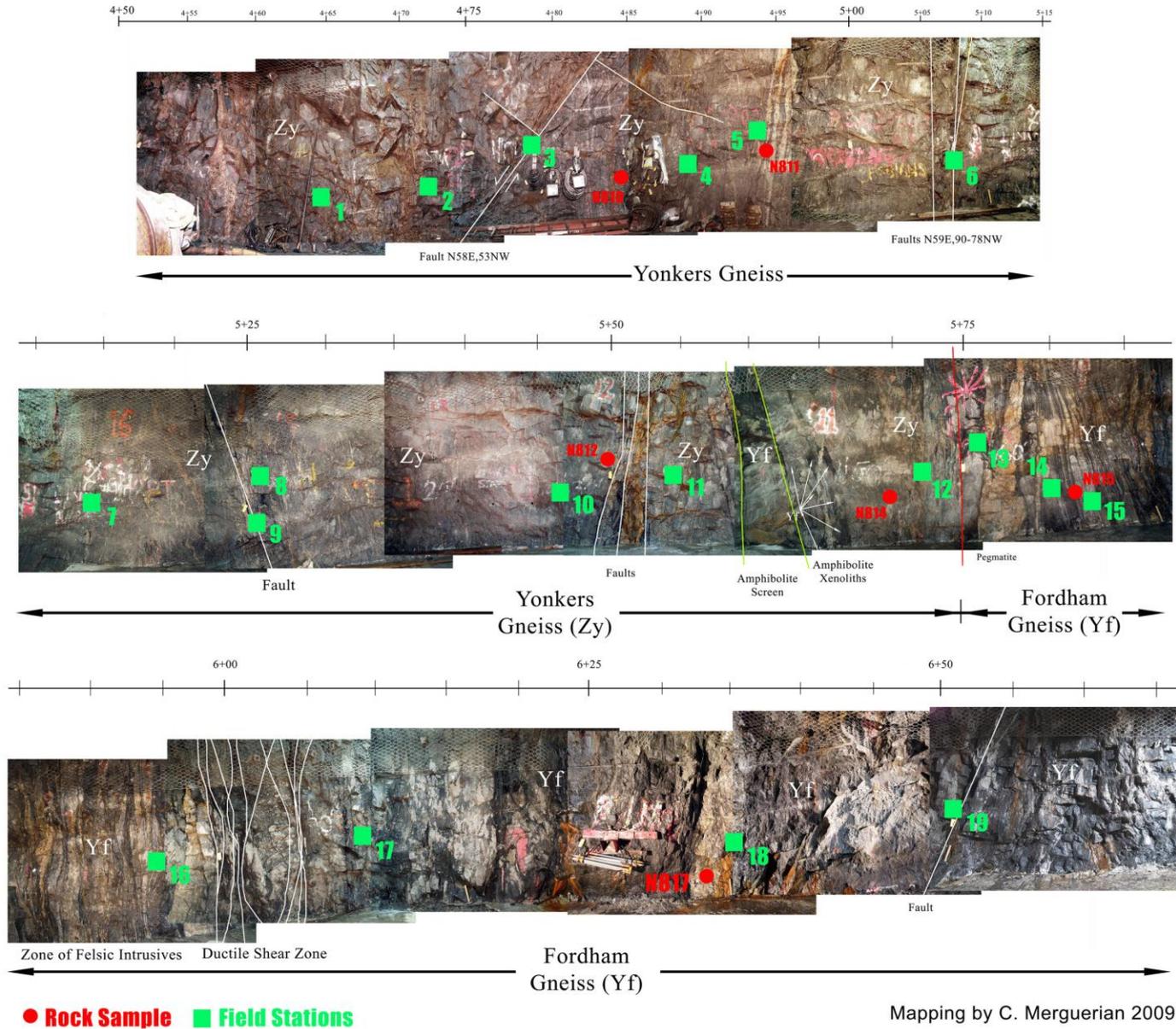
Sta 663 - 675



Yf

Sta 675 - 683

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



Yonkers Gneiss

Sta 518

Zy

550

Sta 550



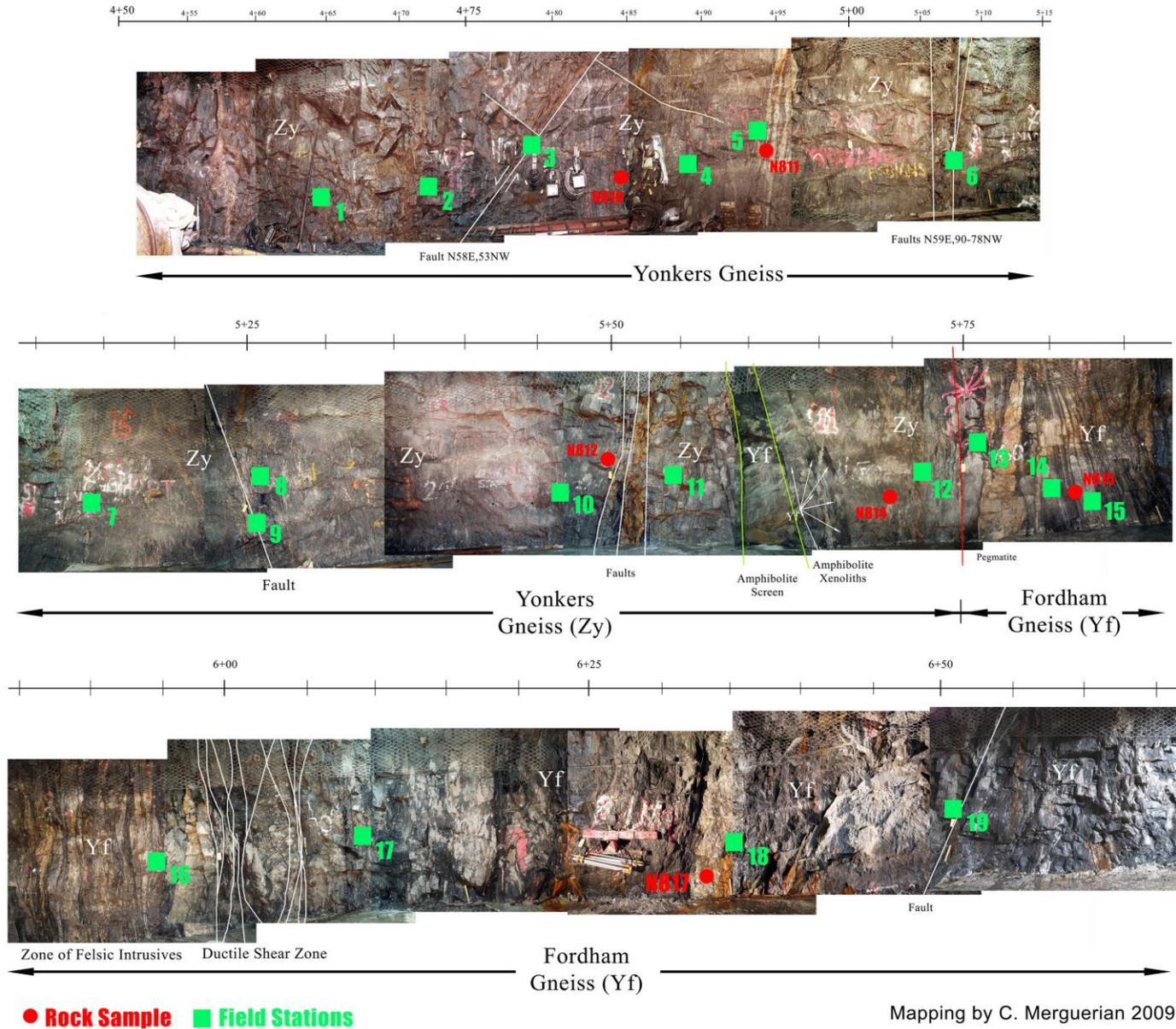


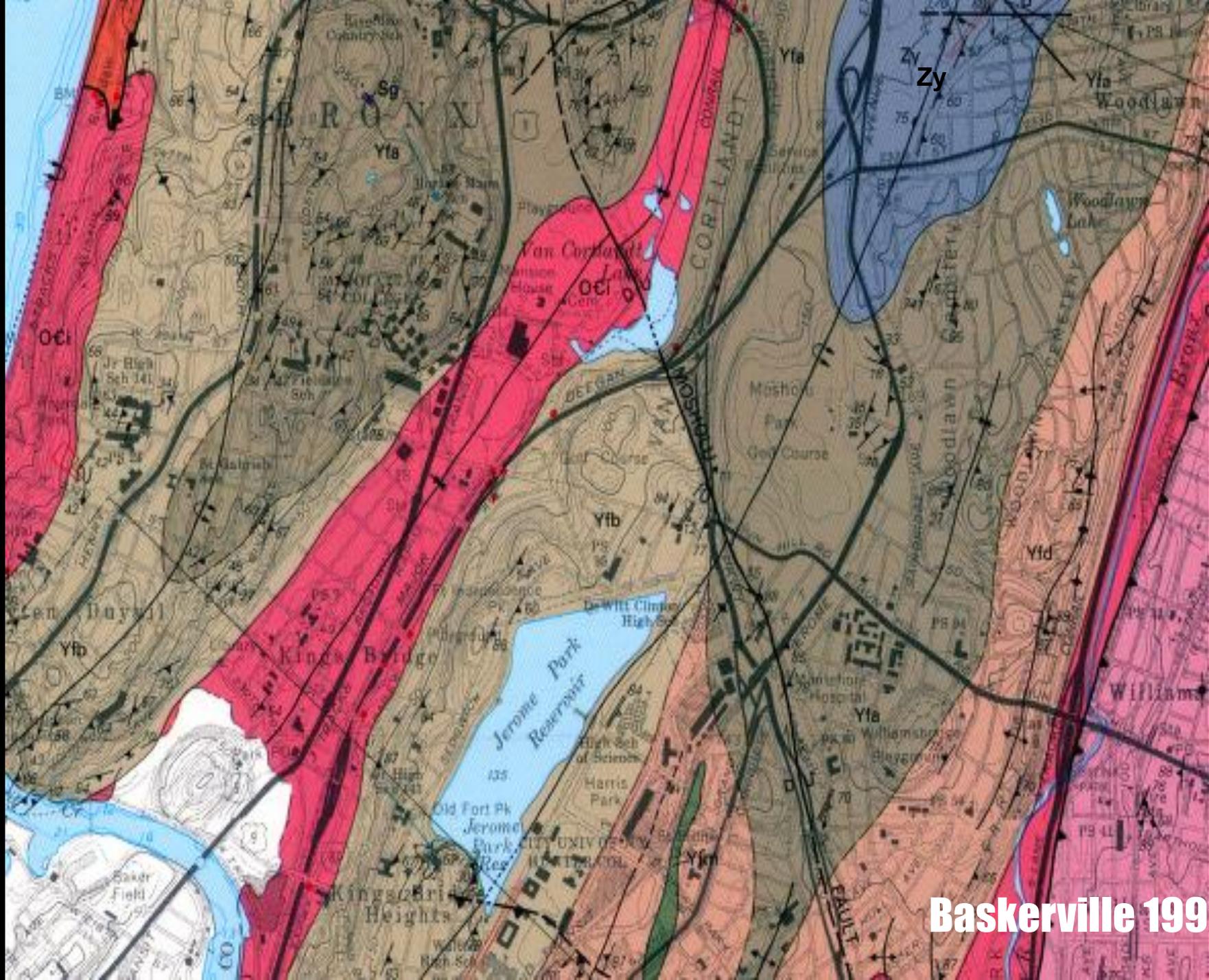
Sta 600



Sta 585

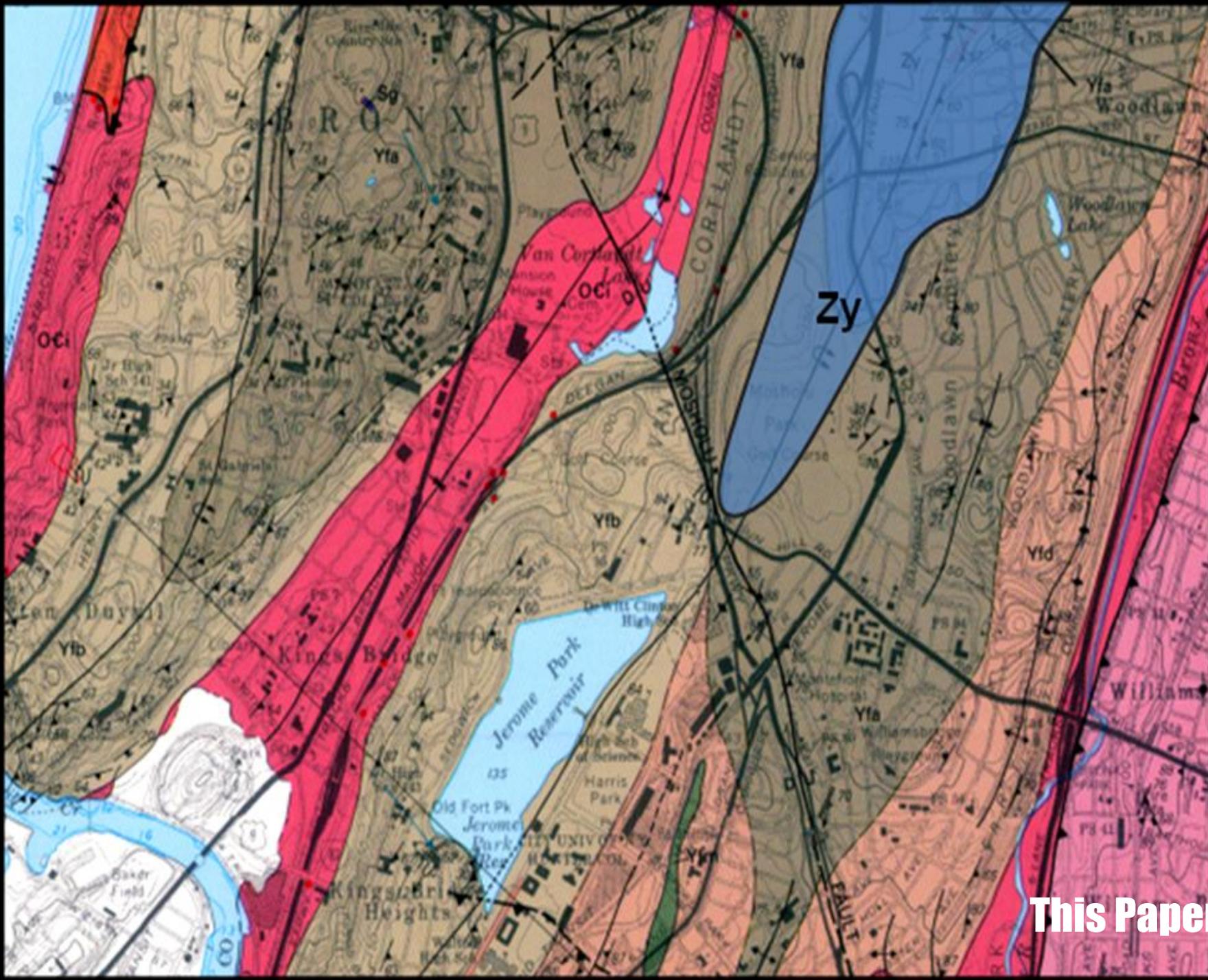
New Croton Water Treatment Plant, Bronx New York - North Wall Raw Water Tunnel, Stations 4+50 to 6+65



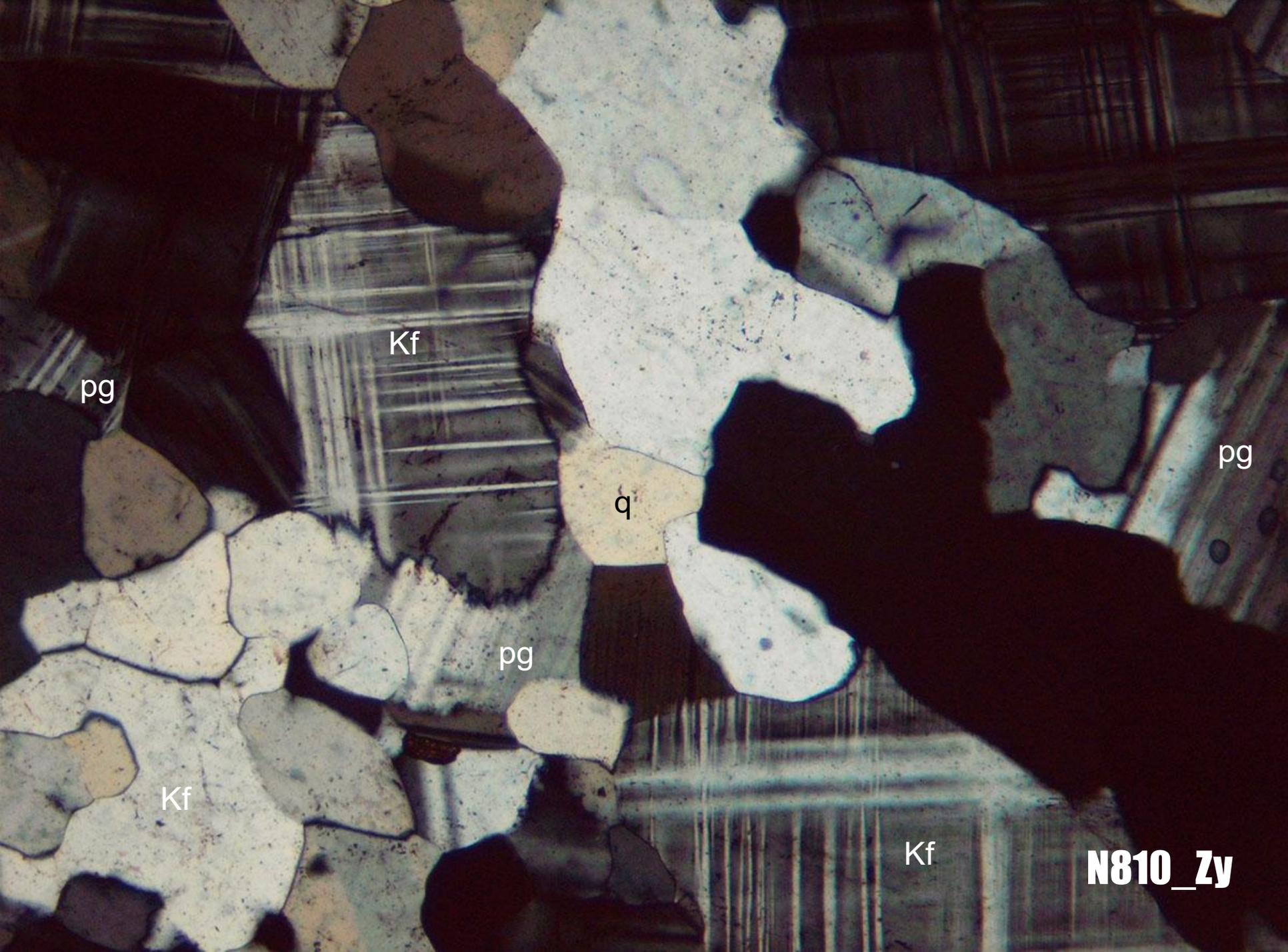


Zy

Baskerville 1992



This Paper



pg

Kf

q

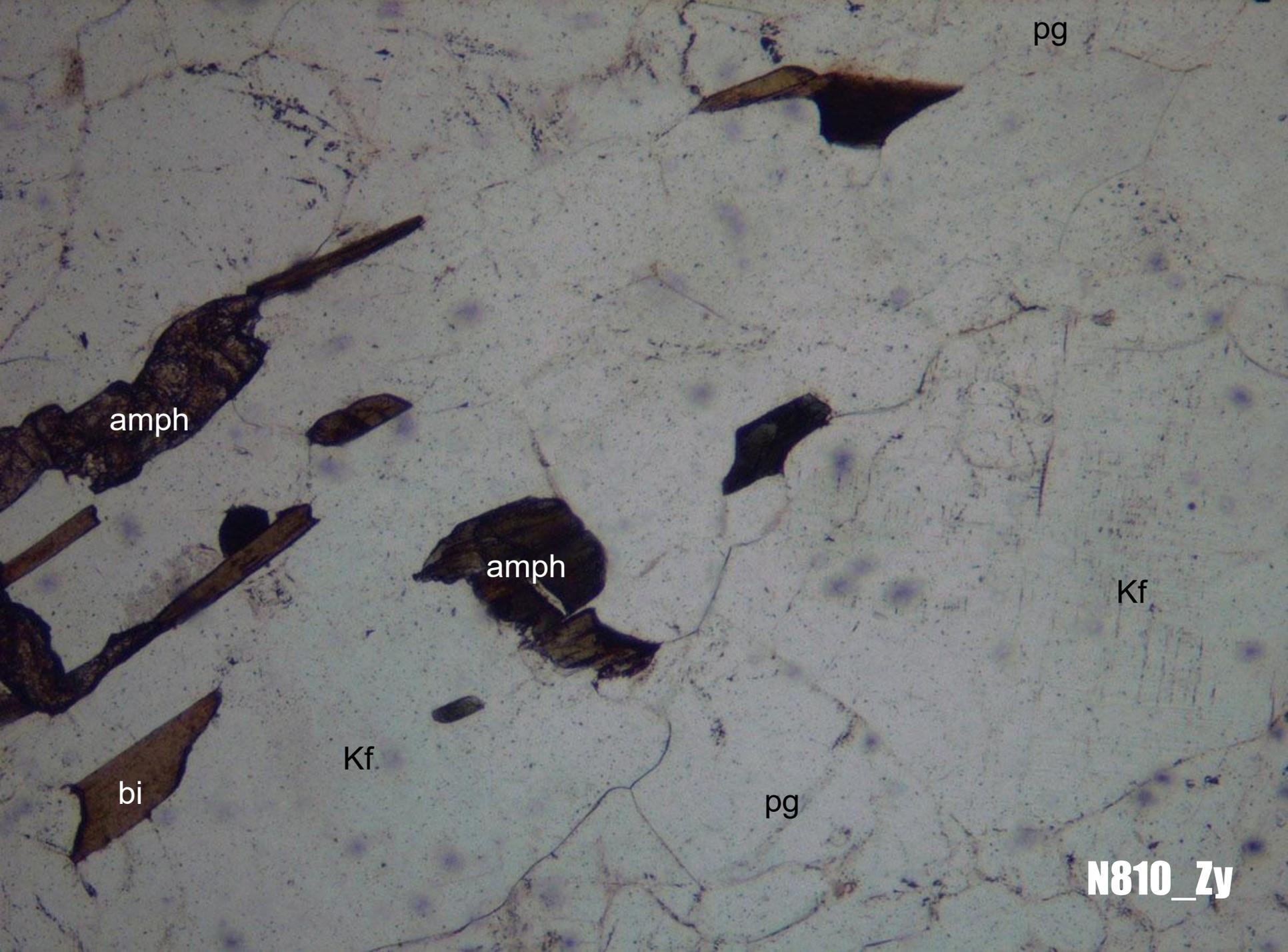
pg

pg

Kf

Kf

N810_zy



pg

amph

amph

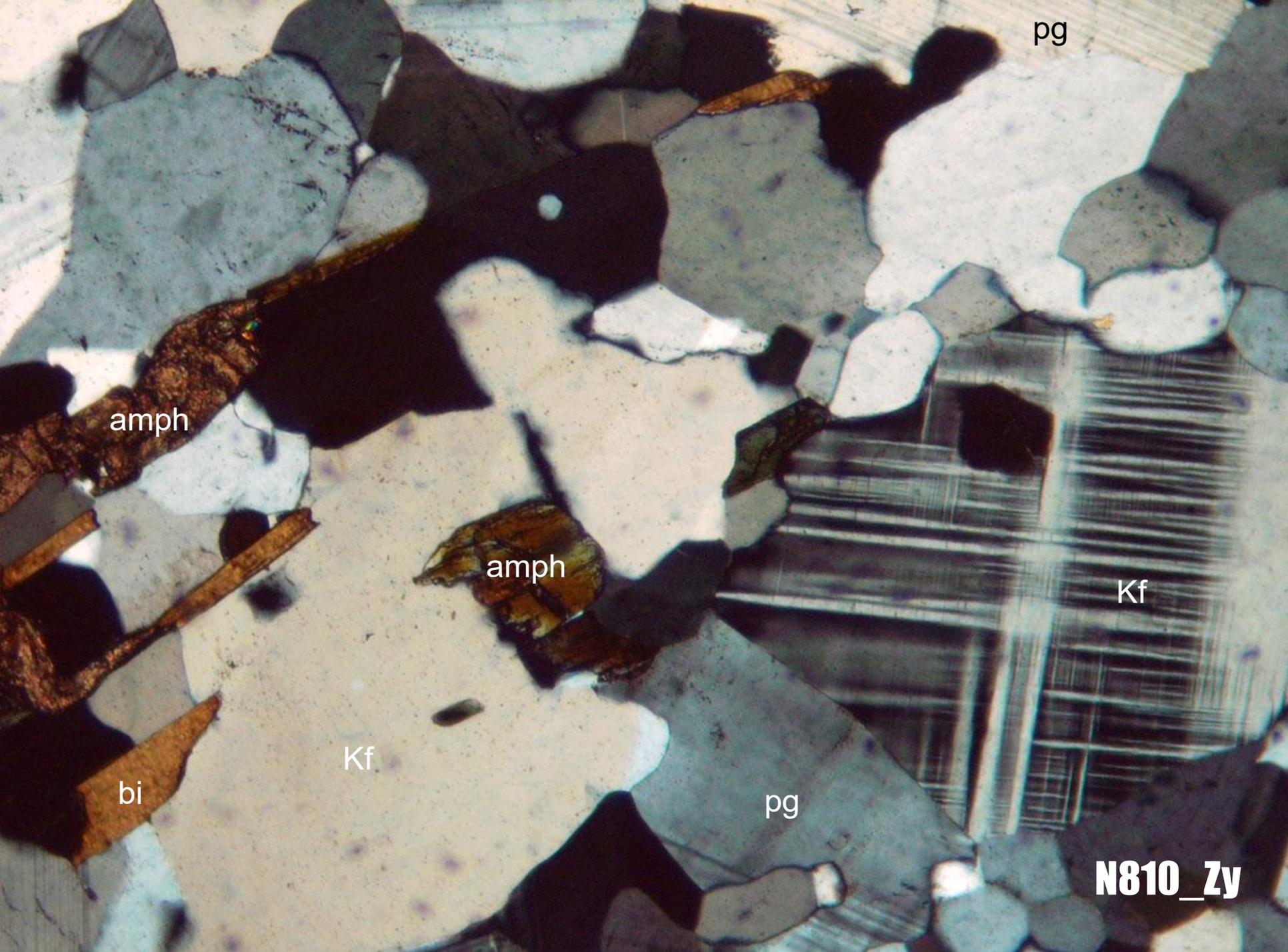
Kf

Kf

bi

pg

N810_Zy



pg

amph

amph

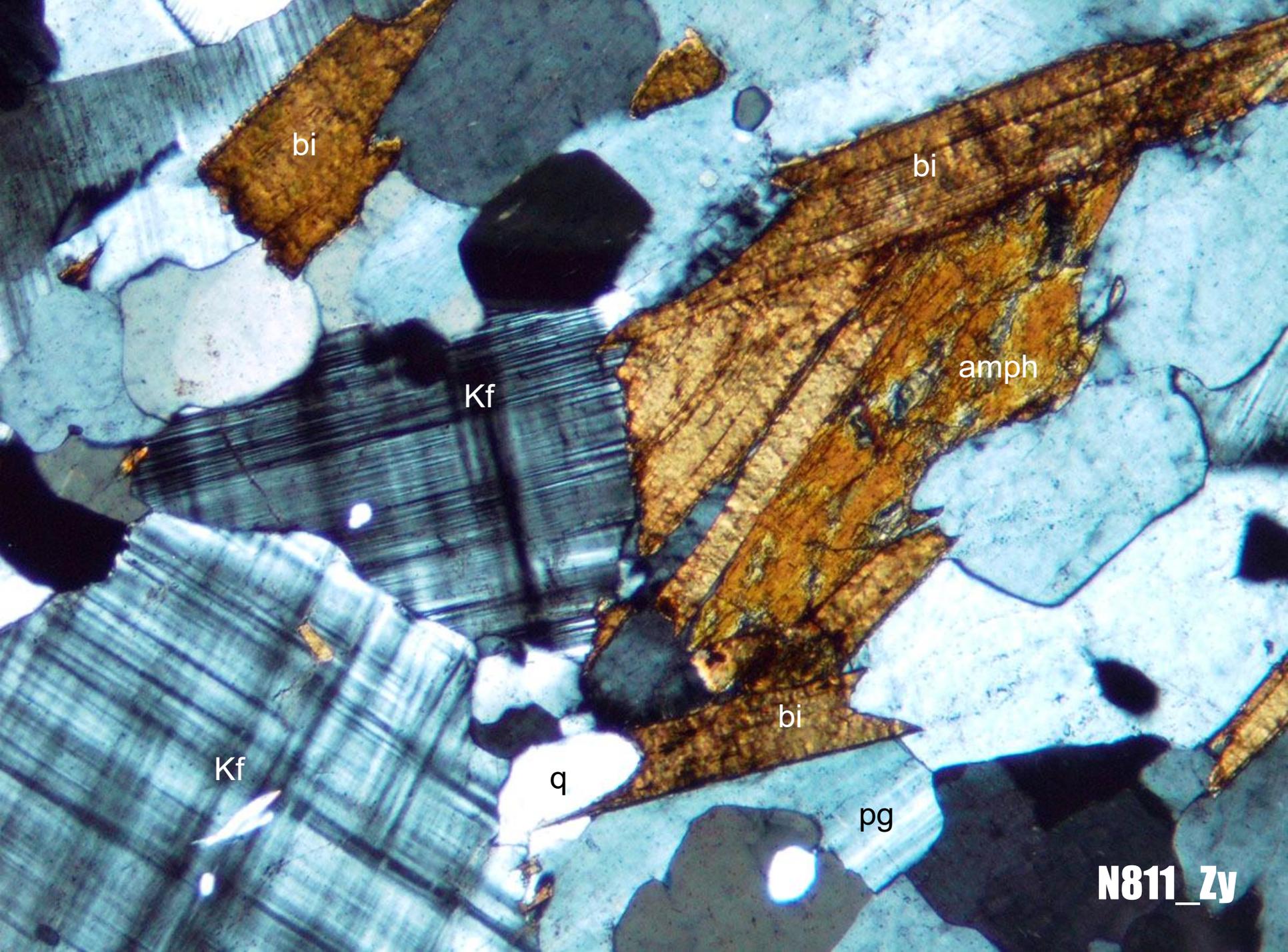
Kf

Kf

bi

pg

N810_Zy



bi

bi

Kf

amph

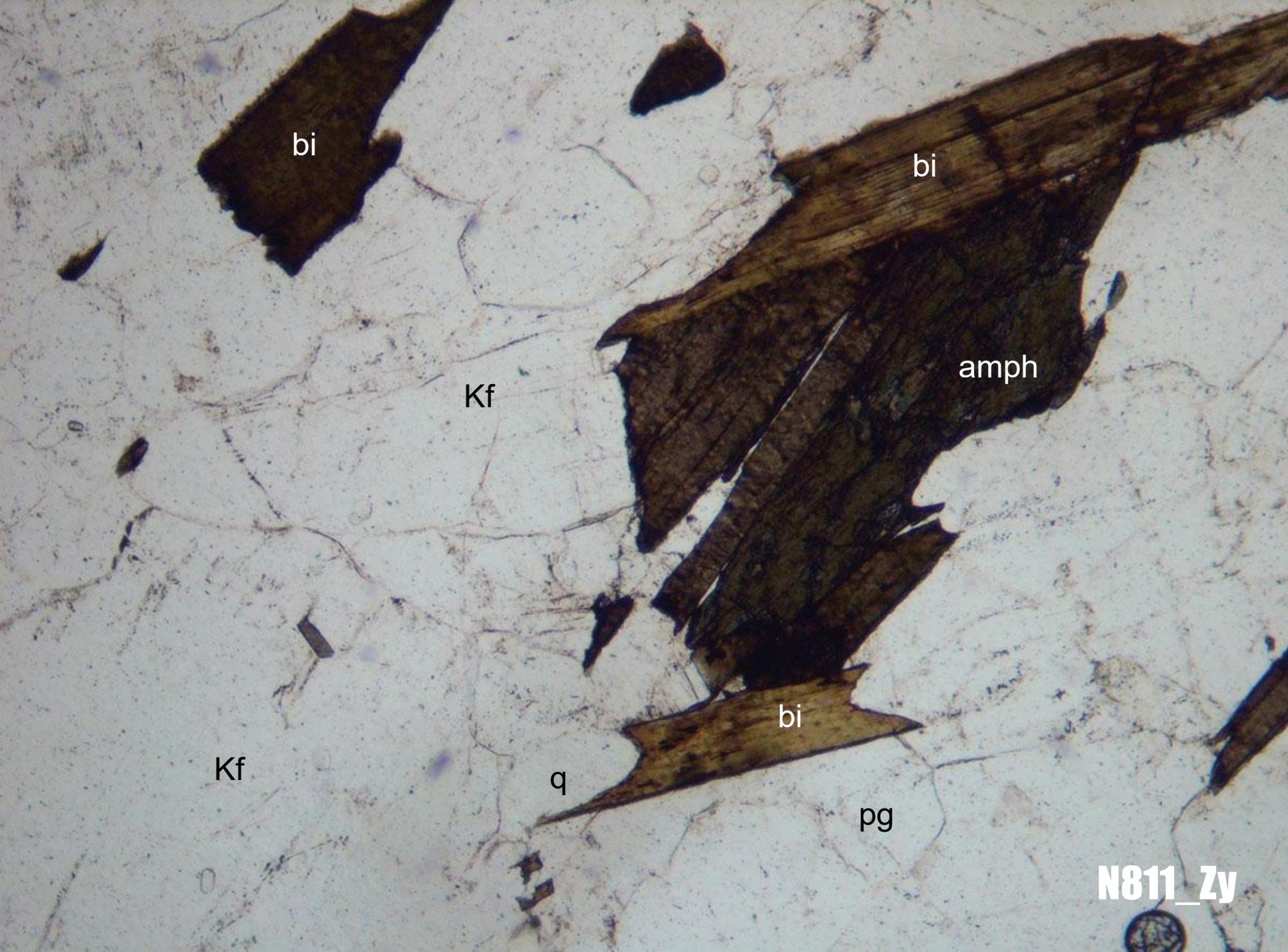
Kf

bi

q

pg

N811_Zy



bi

bi

Kf

amph

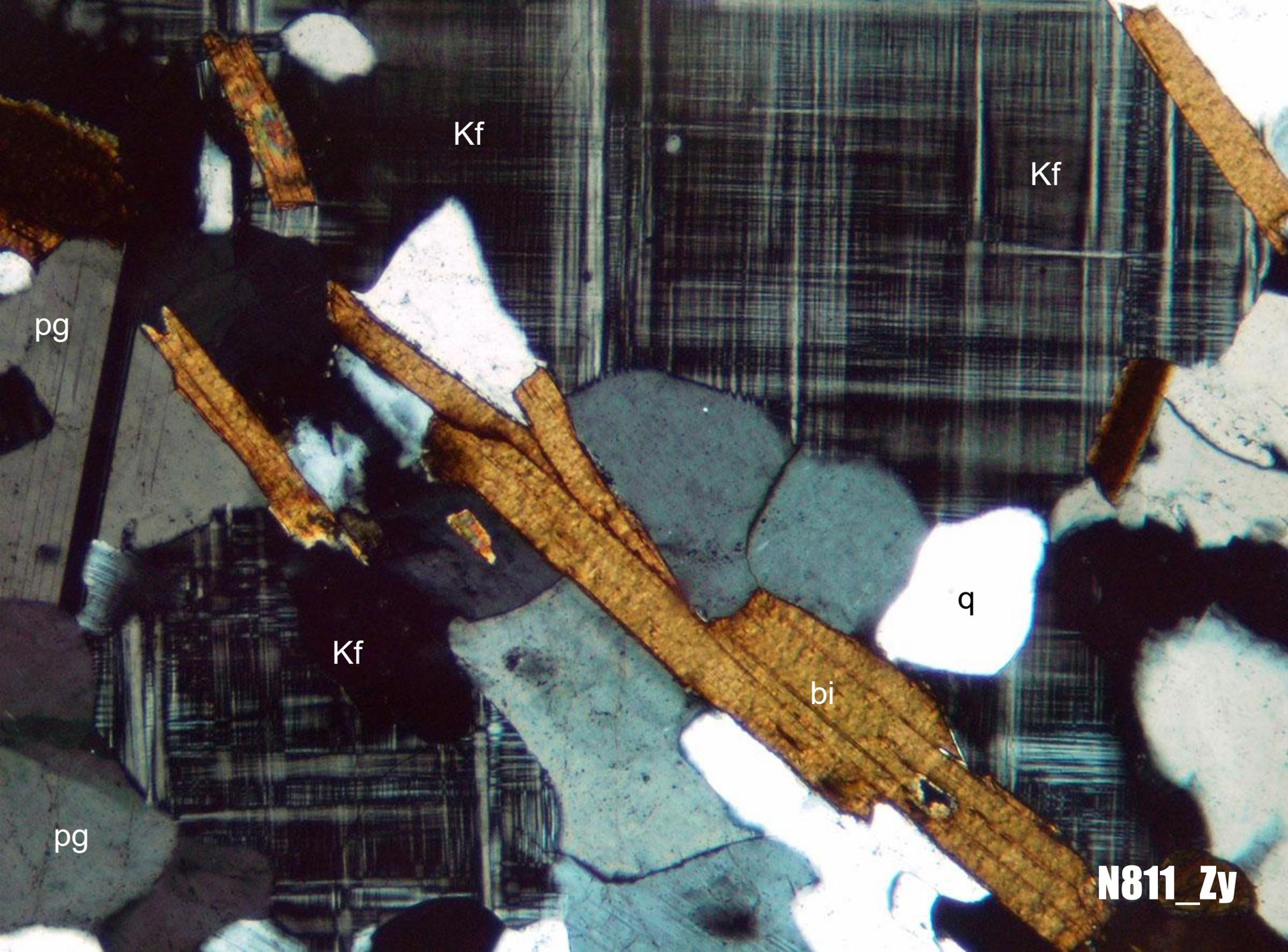
Kf

bi

q

pg

N811_Zy



Kf

Kf

pg

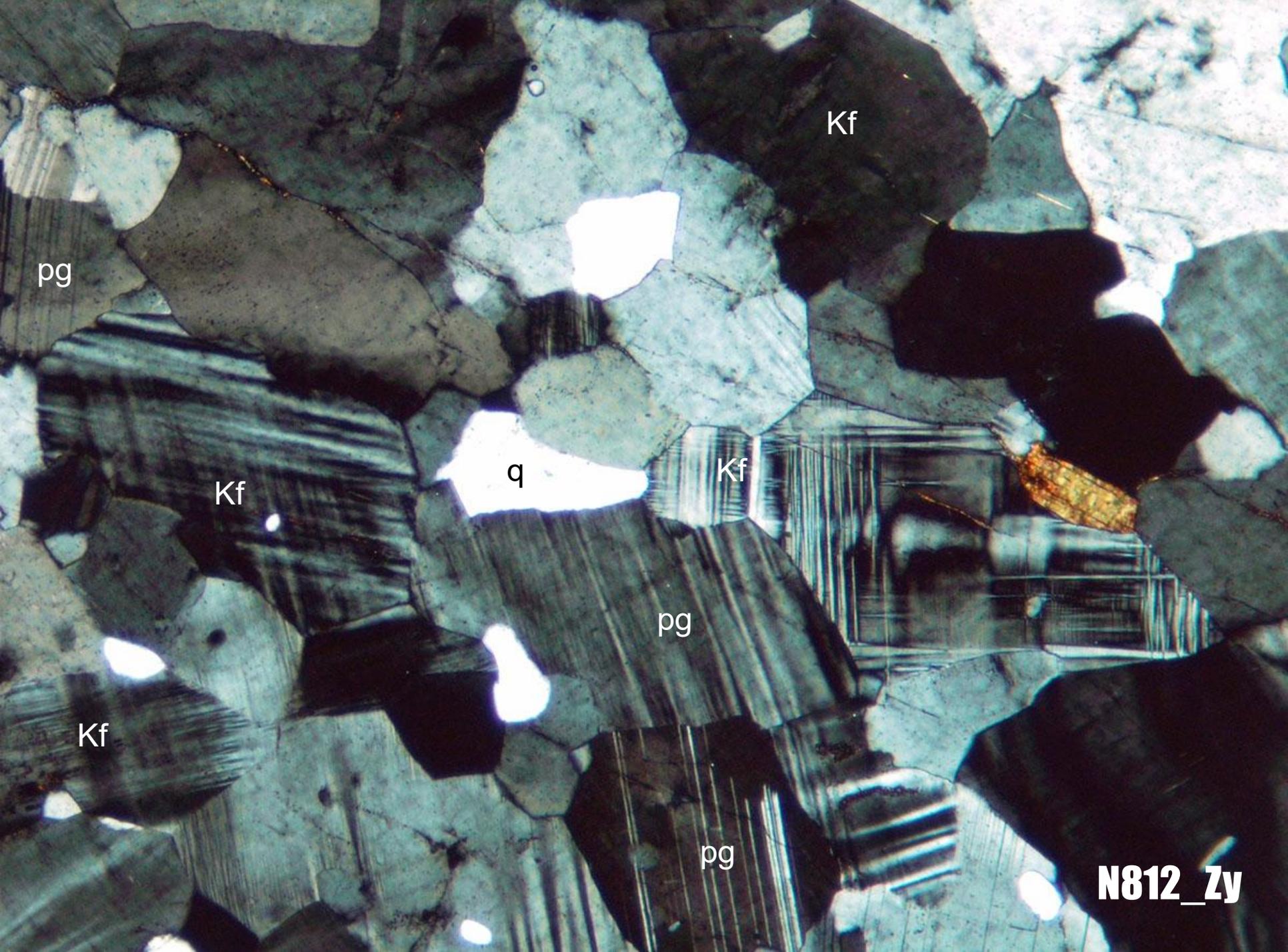
q

Kf

bi

pg

N811_Zy



pg

Kf

Kf

q

Kf

pg

Kf

pg

N812_Zy



amph

amph

pg

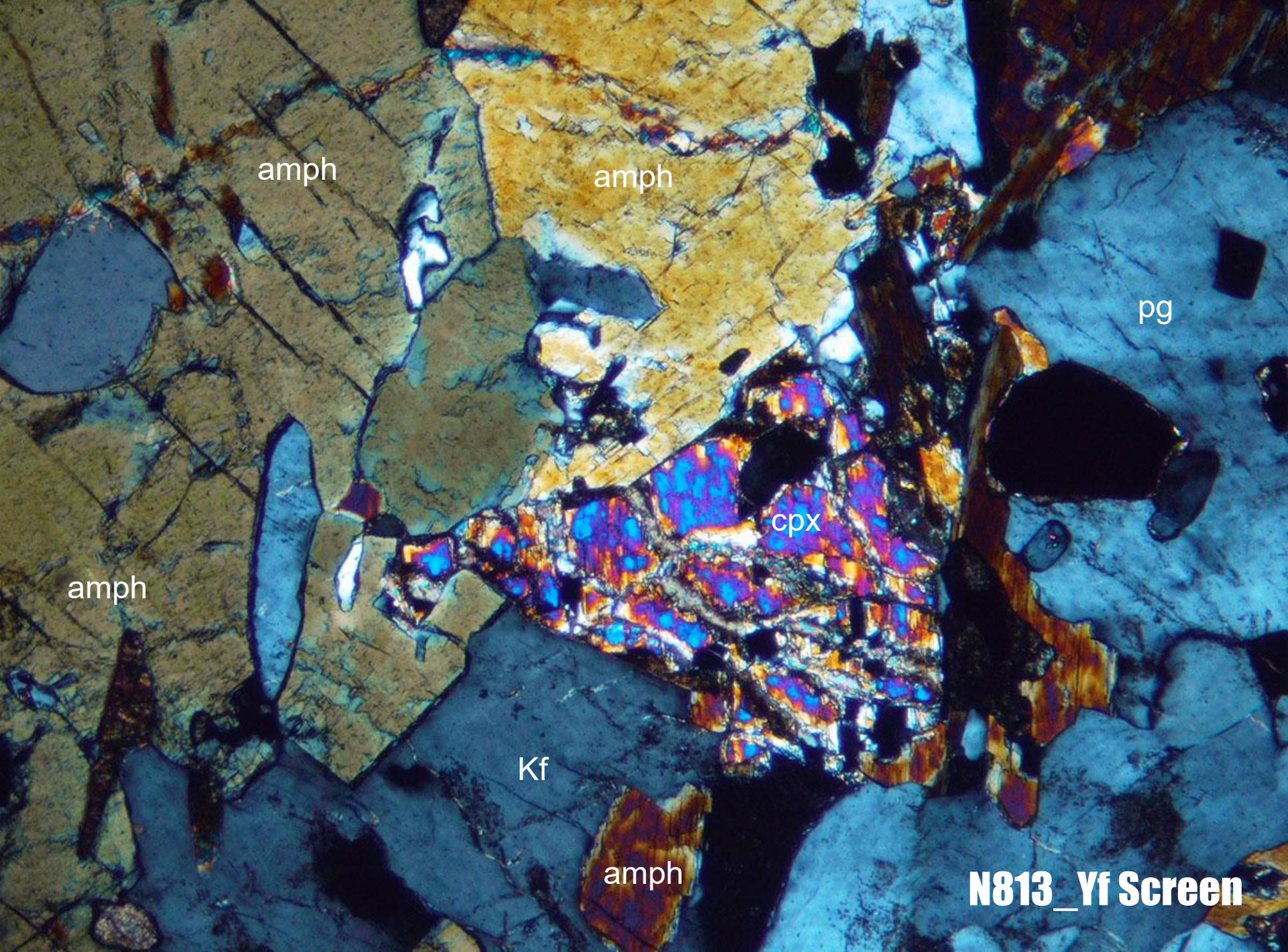
cpx

amph

Kf

amph

N813_Yf Screen



amph

amph

pg

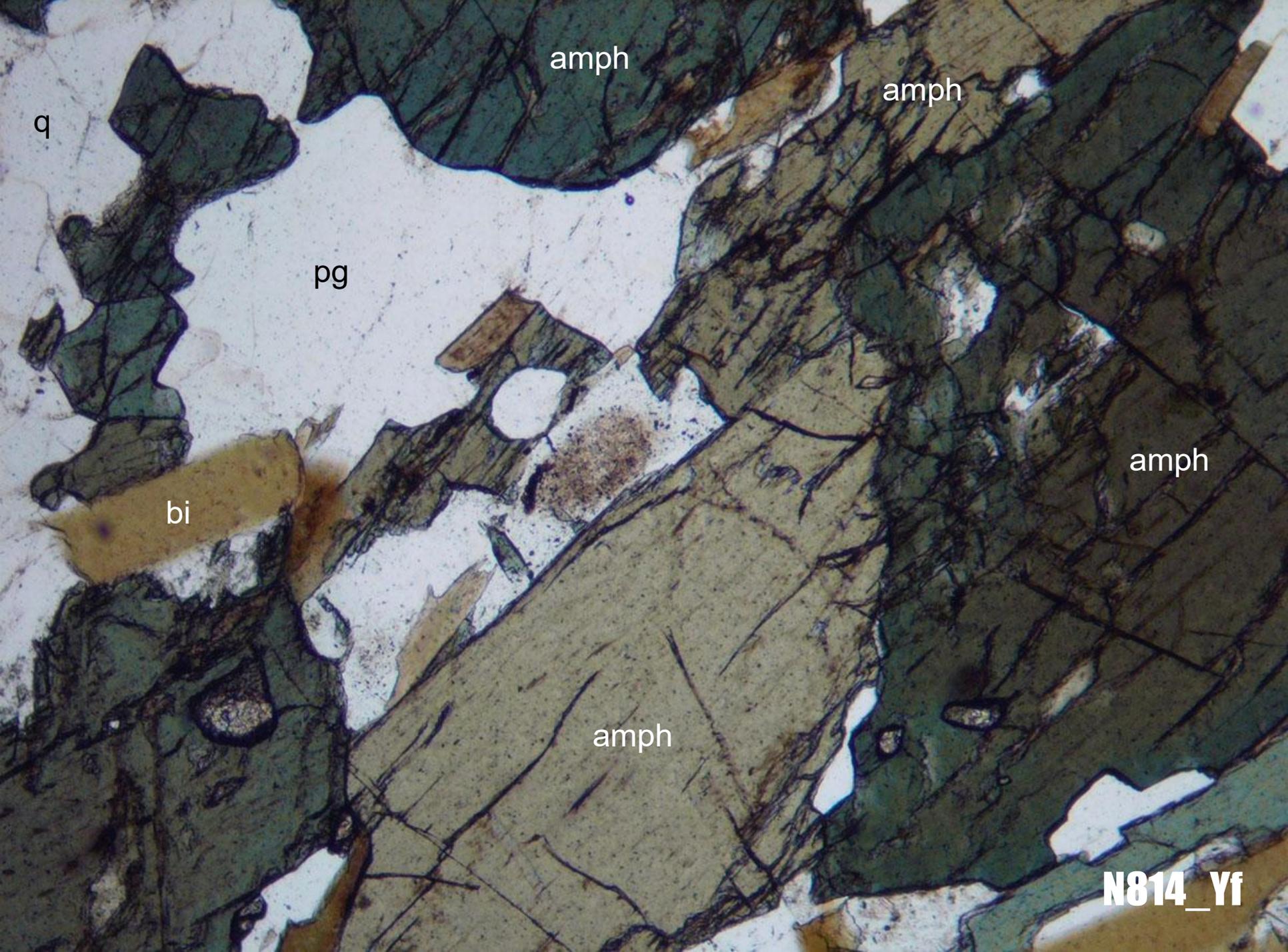
cpx

amph

Kf

amph

N813_Yf Screen



amph

amph

q

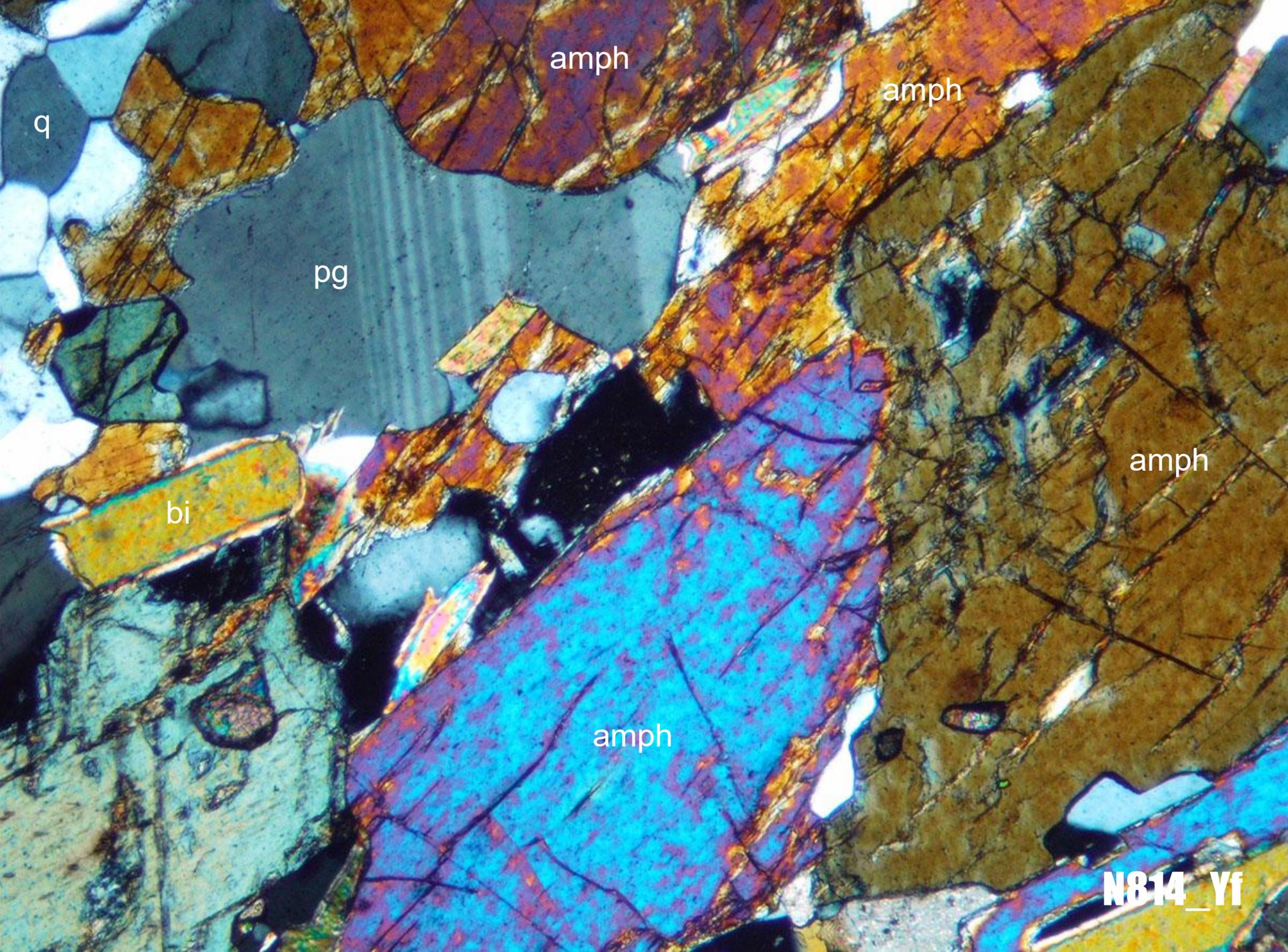
pg

bi

amph

amph

N814_Yf



q

amph

amph

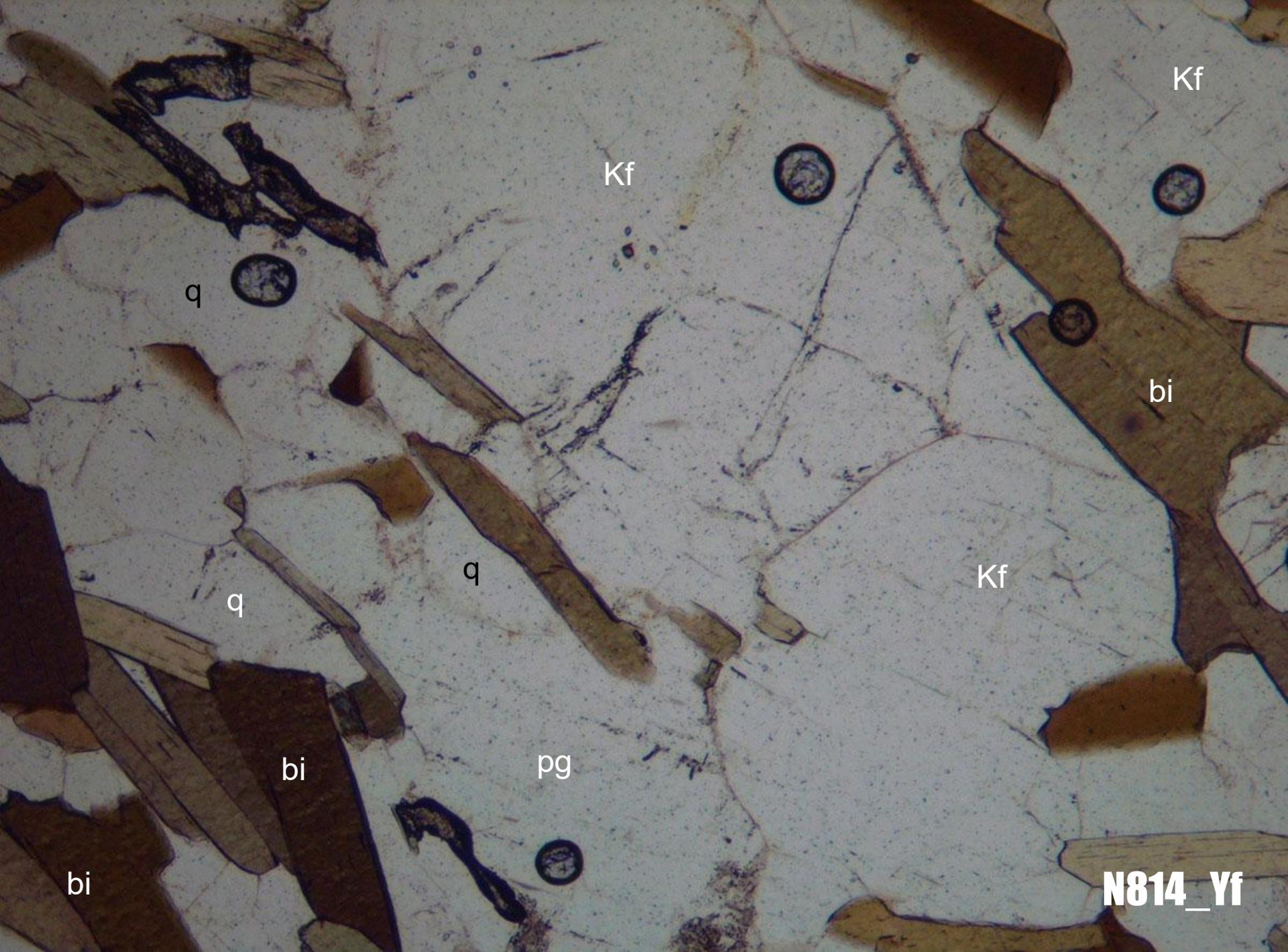
pg

bi

amph

amph

N814_Yf



Kf

Kf

q

bi

Kf

q

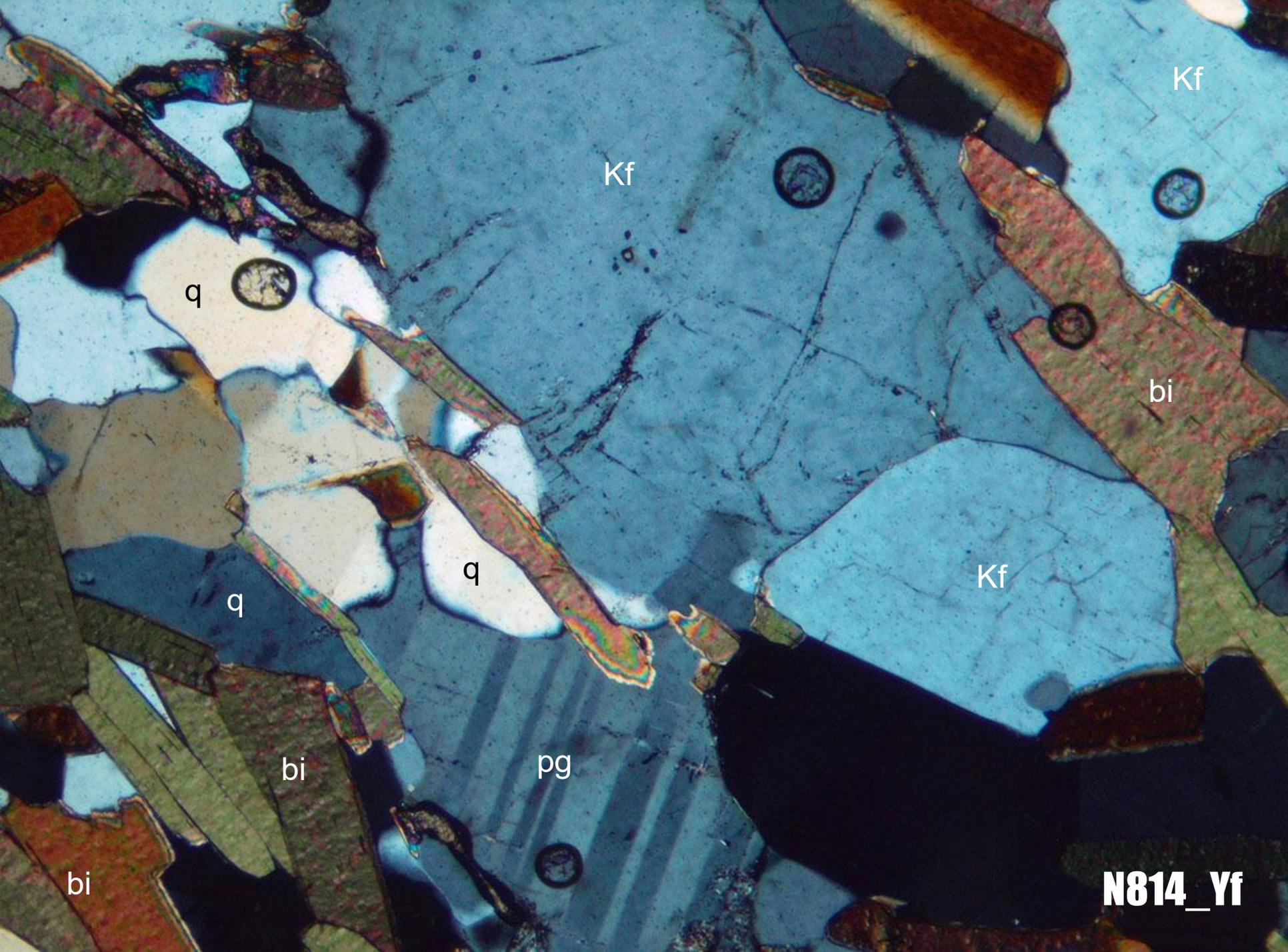
q

bi

pg

bi

N814_Yf



Kf

Kf

q

bi

Kf

q

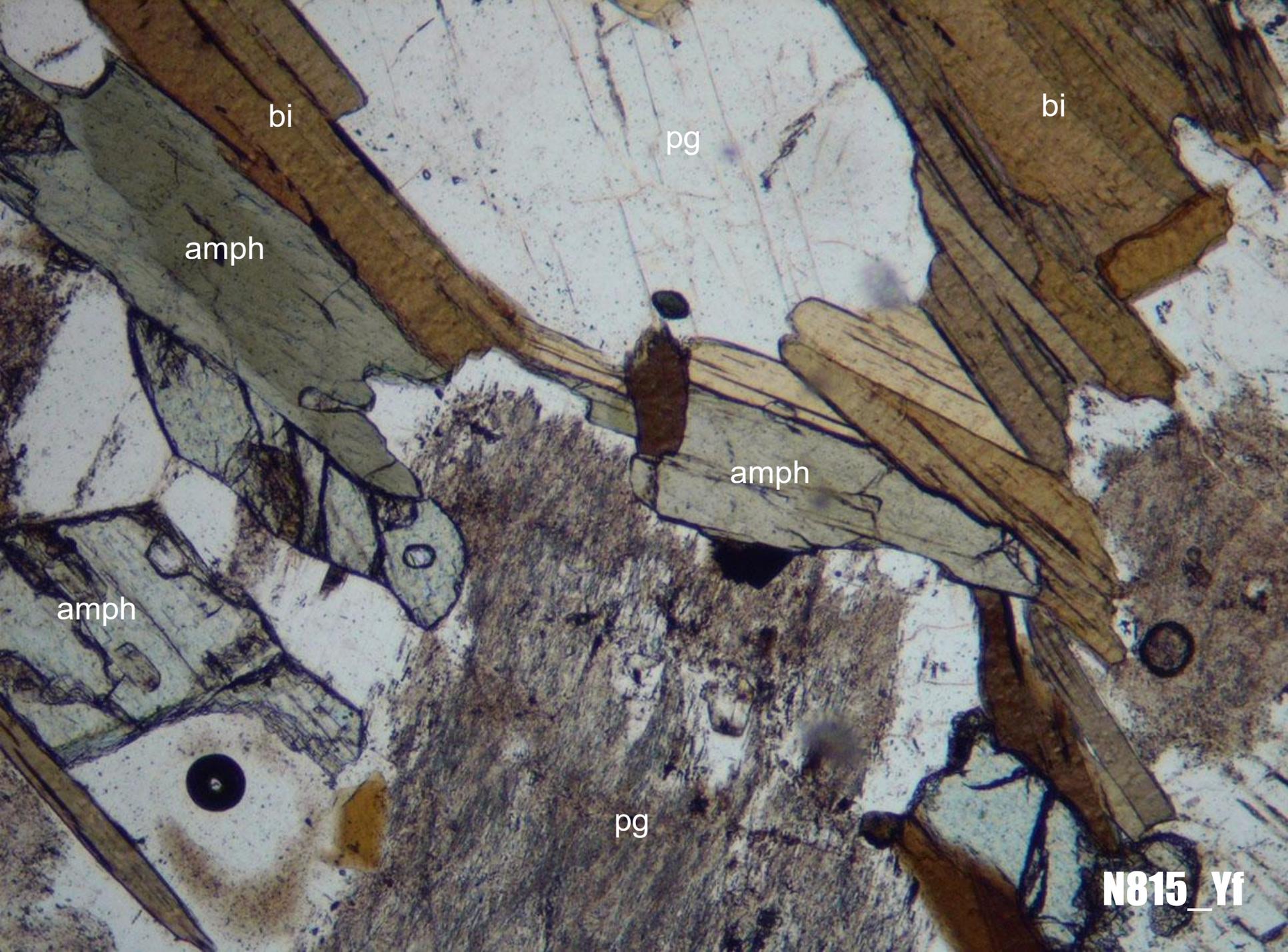
q

pg

bi

bi

N814_Yf



bi

bi

pg

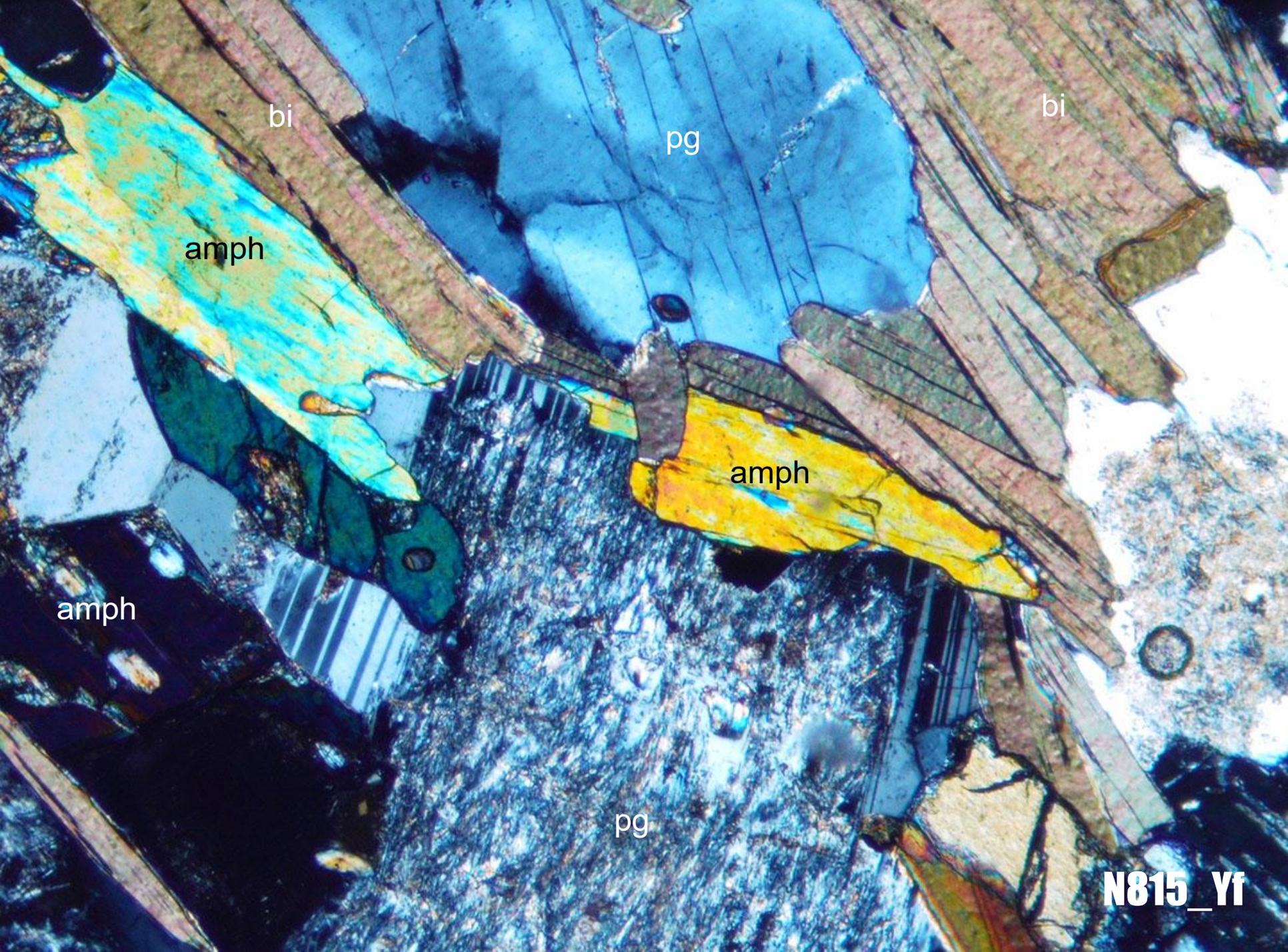
amph

amph

amph

pg

N815_Yf



bi

pg

bi

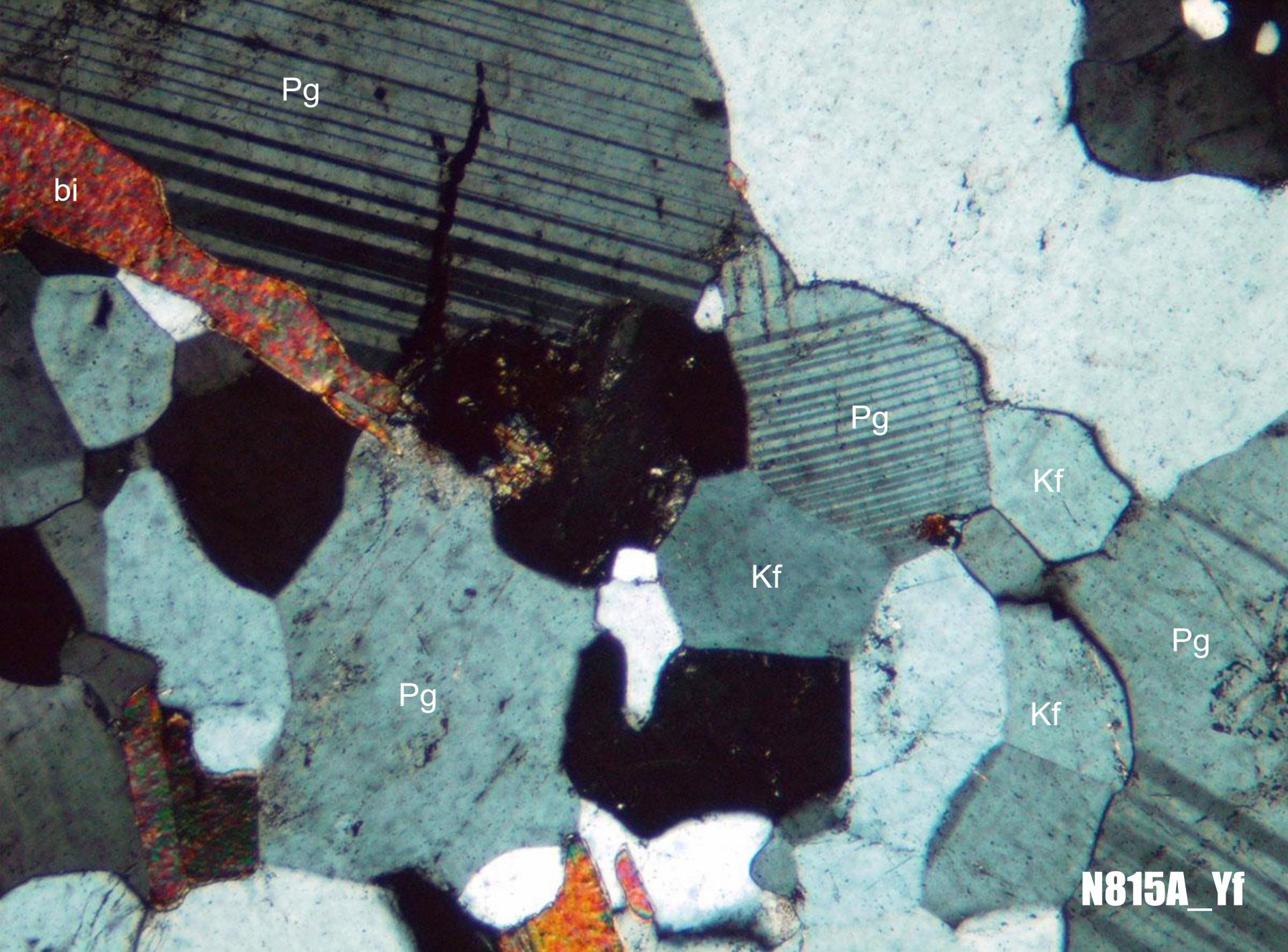
amph

amph

amph

pg

N815_Yf



Pg

bi

Pg

Kf

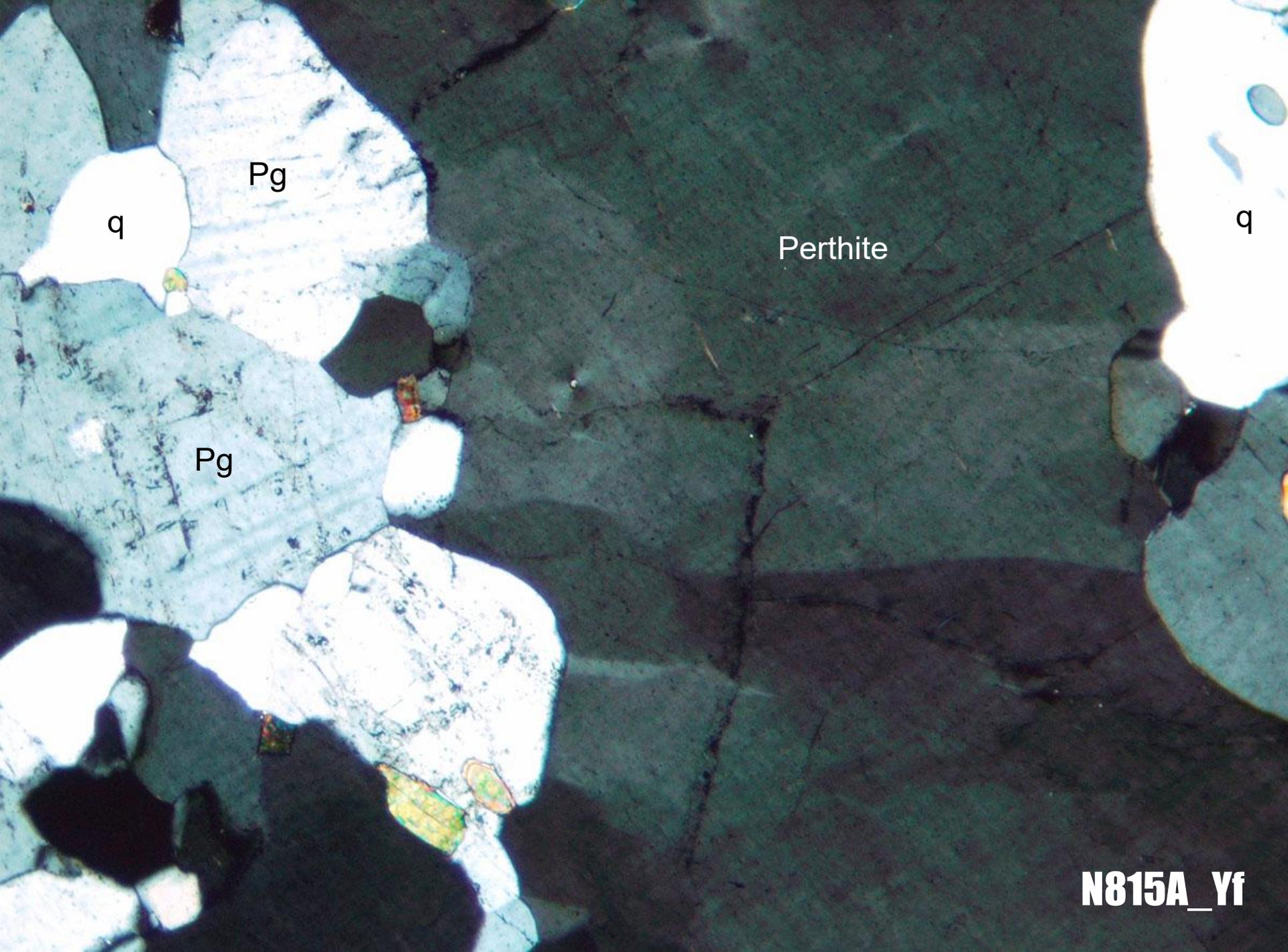
Kf

Pg

Pg

Kf

N815A_Yf



Pg

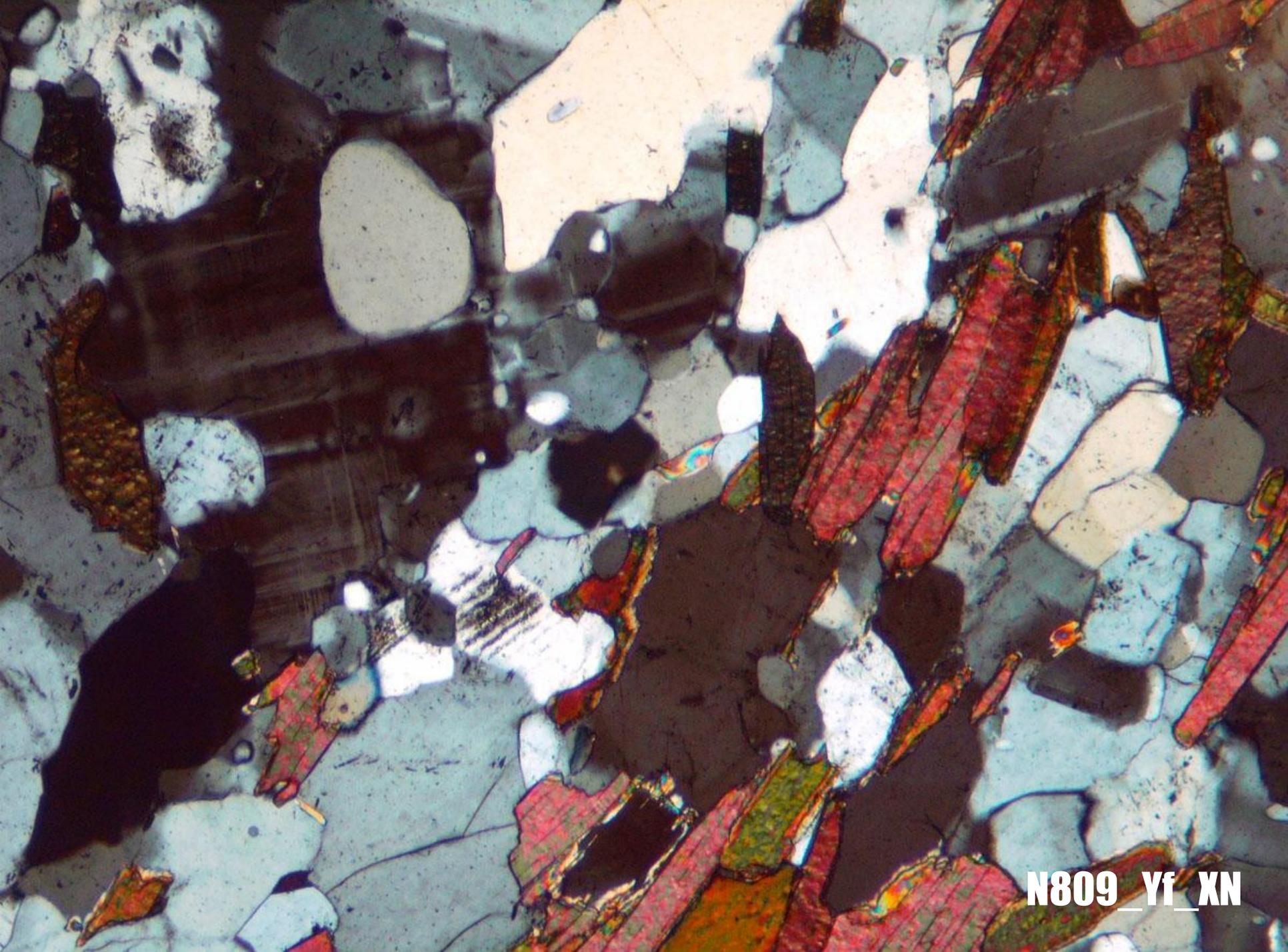
q

Perthite

q

Pg

N815A_Yf



N809_Yf_XN



