

PLATES FOR STANDARD OIL CO., WEYERHAEUSER #1-22

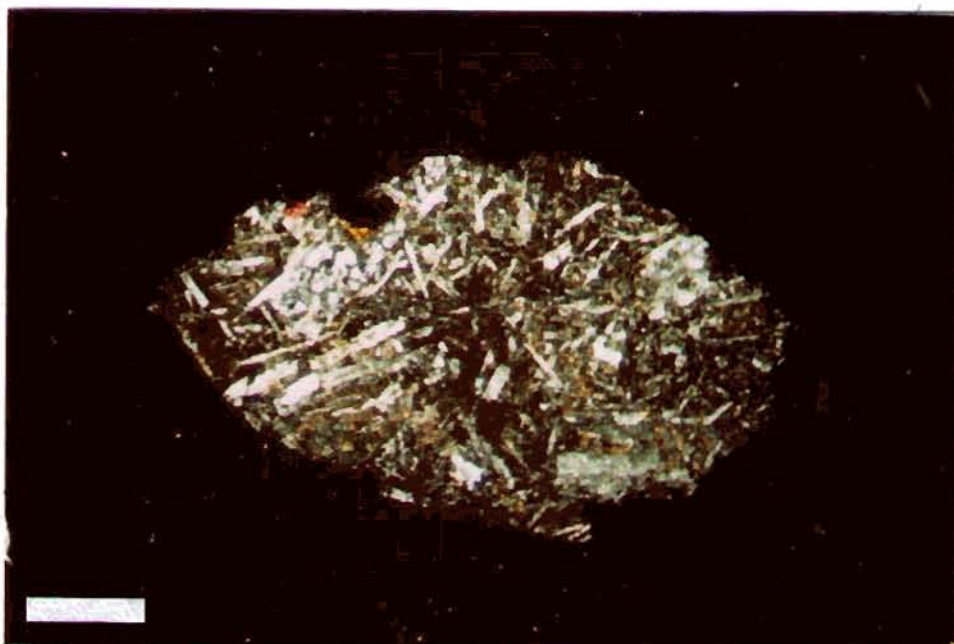


PLATE 1: Diabase sill. This fragment is detrital in that no contact metamorphism was noted. A very similar diabase sill was observed in the Kindblade fm. of the Ordovician Arbuckle in the Humble, Miller #1, Collin Co., Texas. Crystal Mountain fm., 90-100'.
Crossed Nicols (XN) Q-1 Bar represents 1/4 mm

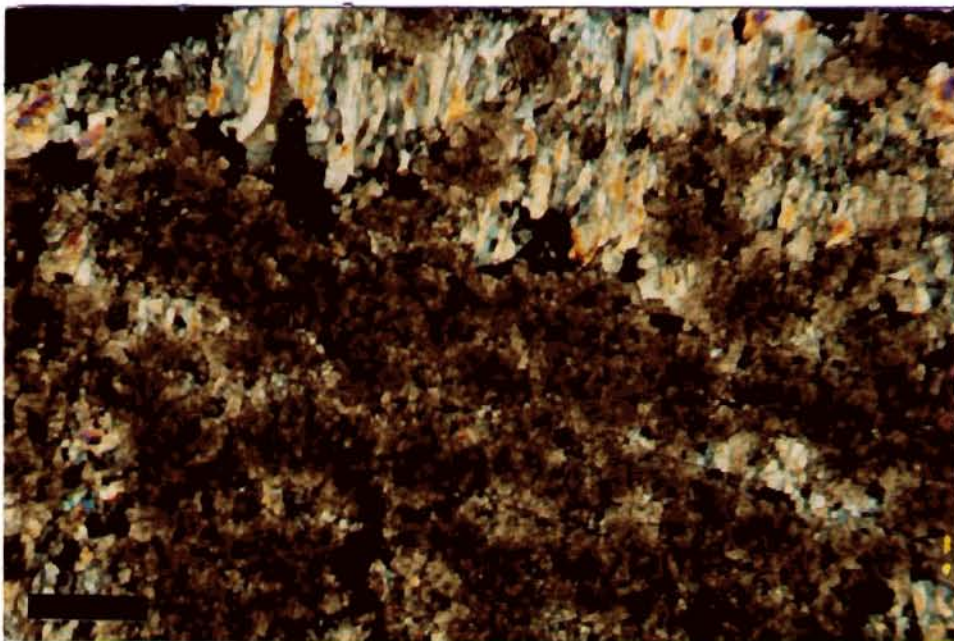


PLATE 2: Very fine crystalline meta-dolomite with chalcedony vein or void filling. Crystal Mountain fm., 160-70'.
(XN) Q-2 Bar represents 1/4 mm

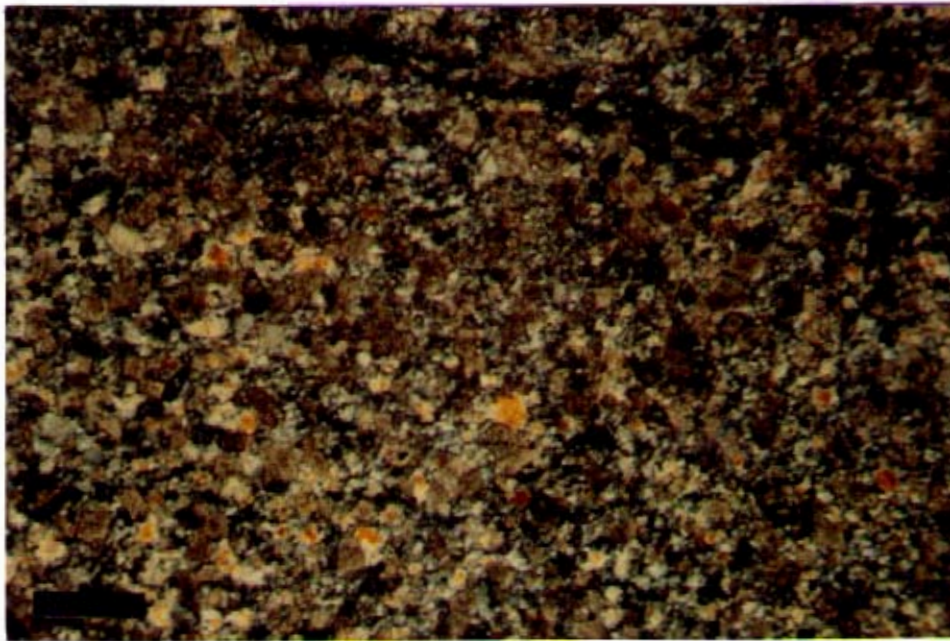


PLATE 3: Very siliceous and dolomitic quartzite. Dolomite is tan and silica cement is light gray. Crystal Mountain fm., 160-70'.
XN Q-3 Bar Represents 1/4 mm

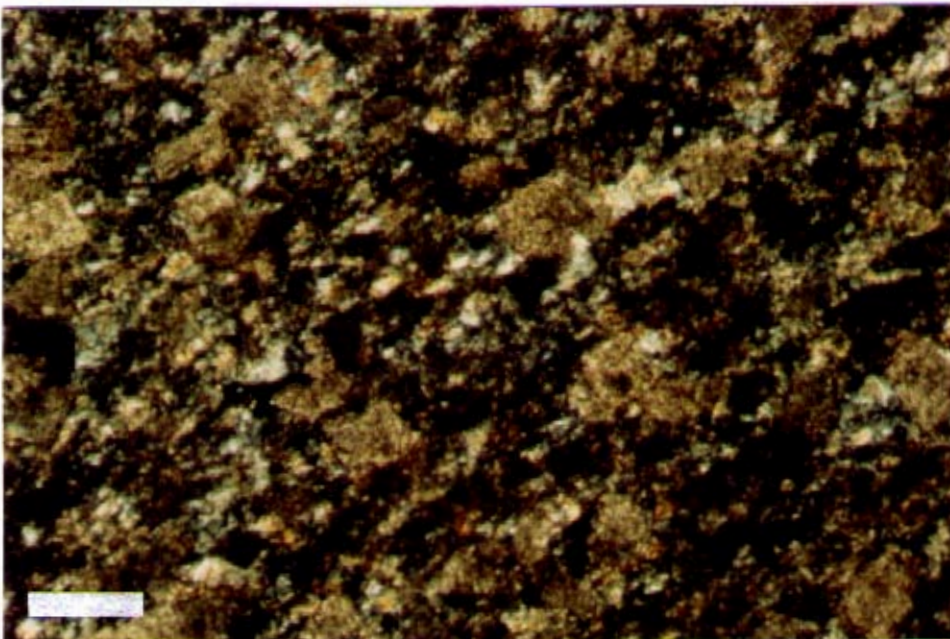


PLATE 4: Argillaceous dolomitic quartzite. Dolomite crystals are tan while argillaceous material is dark brown to black. Crystal Mountain fm., 160-70'.
XN P-5 Bar represents 1/4mm

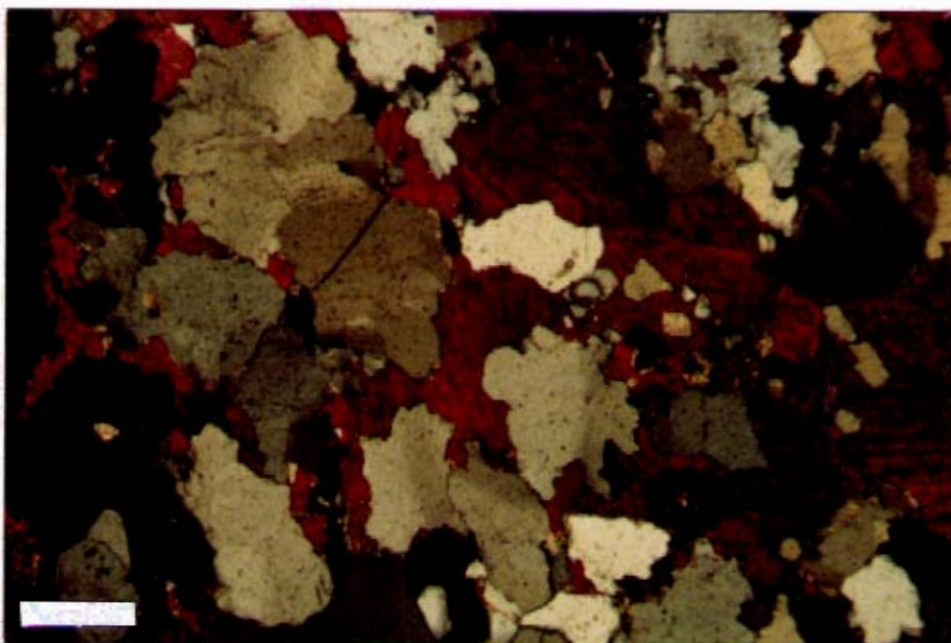


PLATE 5: Calcareous quartzite. Calcite stained red with Alizarin Red-S.
Note very angular and sutured contacts between quartz grains.
Crystal Mountain fm., 180-90'.

XN

Q-4

Bar represents 1/4 mm

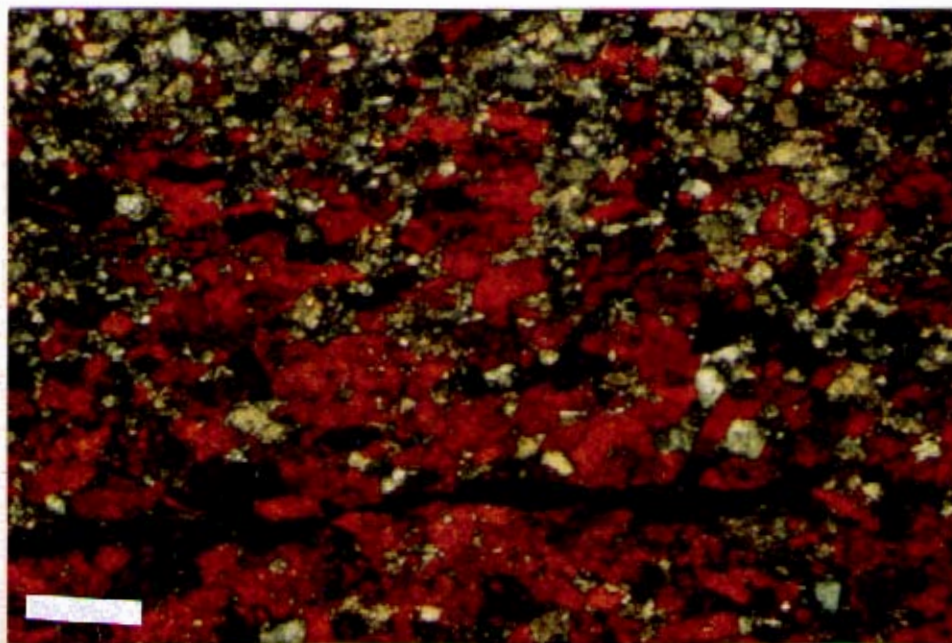


PLATE 6: Siliceous dolomitic marble cut by graphitic sericitic
stylolite. Calcite stained with Alizarin Red-S. Collier fm.,
180-90'.

XN

P-6

Bar represents 1/4 mm

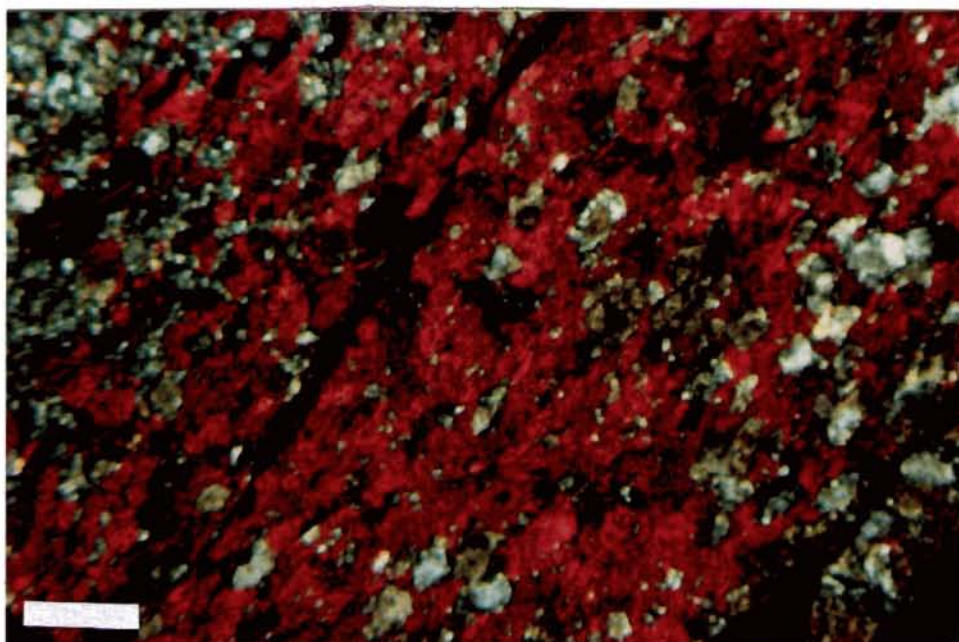


PLATE 7: Siliceous quartzite (upper left) grading into sandy dolomitic marble. Note mica filled partings. Calcite stained red. Collier fm., 180-90'.

XN

Q-5

Bar represents 1/4 mm

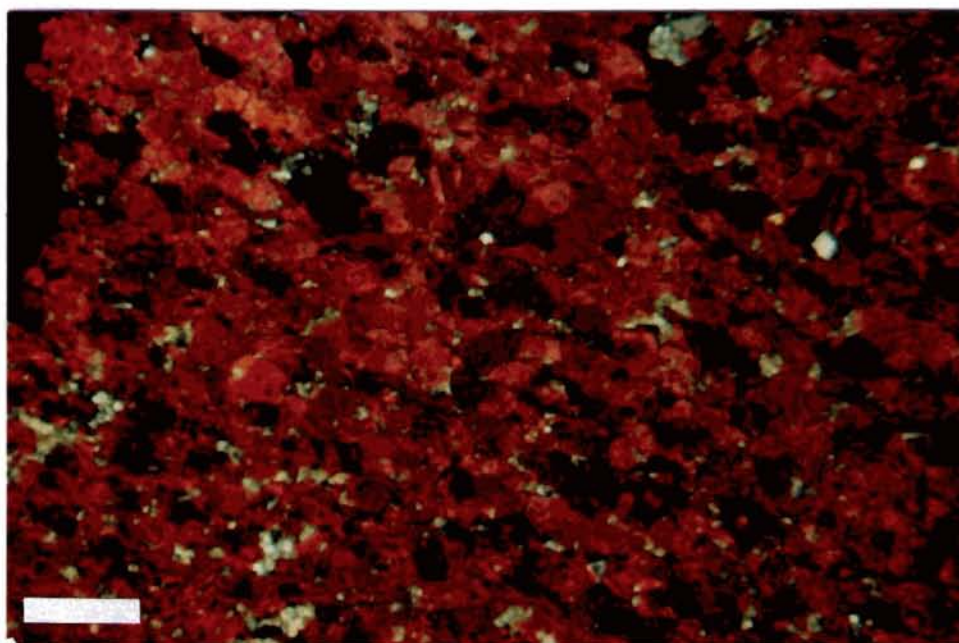


PLATE 8: Slightly sandy fine crystalline marble. Collier fm., 250-60'.

XN

Q-6

Bar represents 1/4 mm

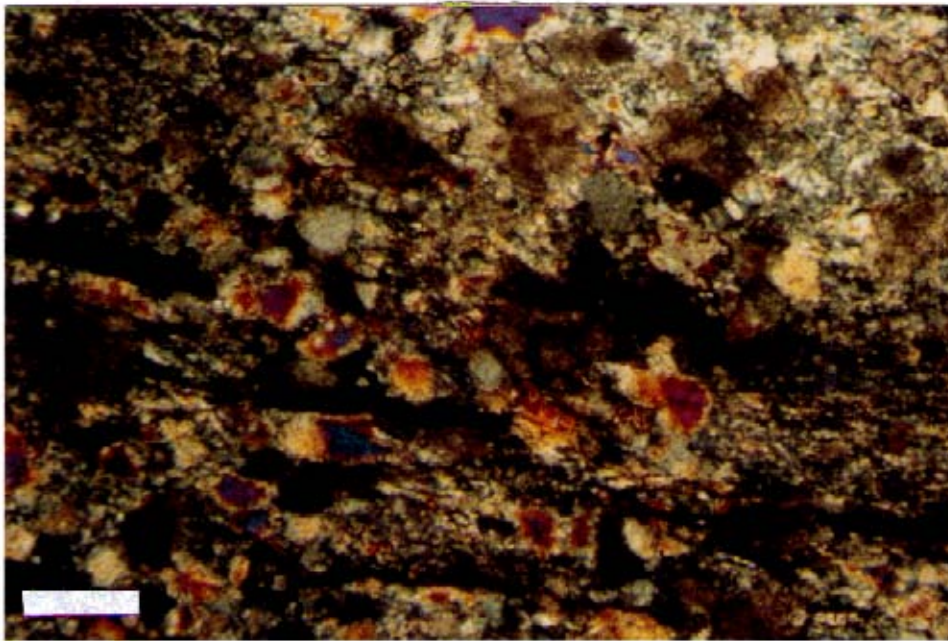


PLATE 9: Siliceous dolomitic quartzite with mica partings. Dolomite is tan rhombs, and silica cement is light gray to white. Collier fm., 350-60'.

XN

Q-7

Bar represents 1/4 mm



PLATE 10: Dark gray graphitic slate cut by chalcedony filled fractures. Collier fm., 350-60'.

XN

Q-8

Bar represents 1/4 mm

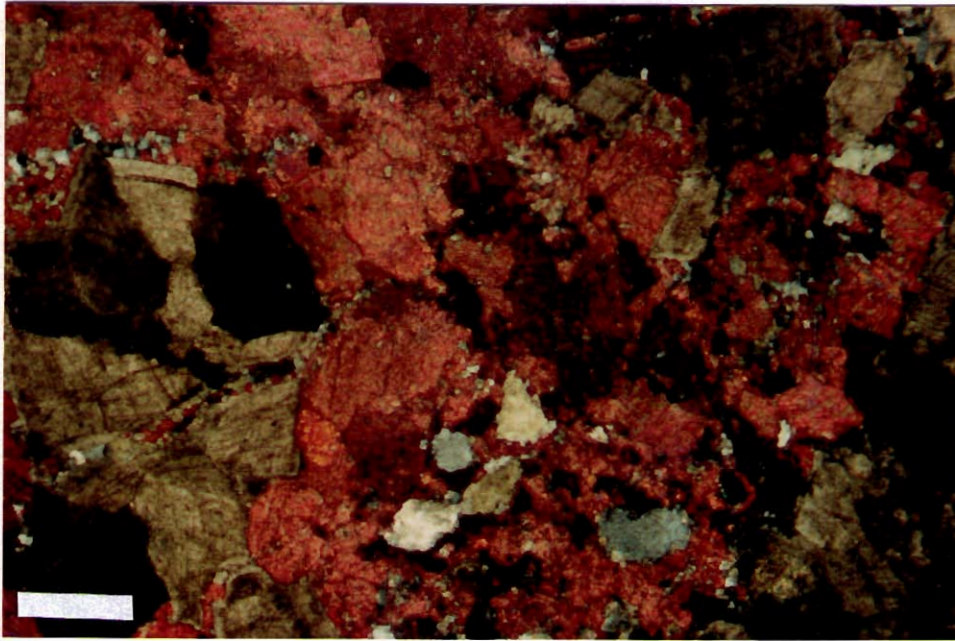


PLATE 11: Medium crystalline dolomite replacing sandy marble. Collier
fm., 400-10'.

XN

Q-9

Bar represents 1/4 mm

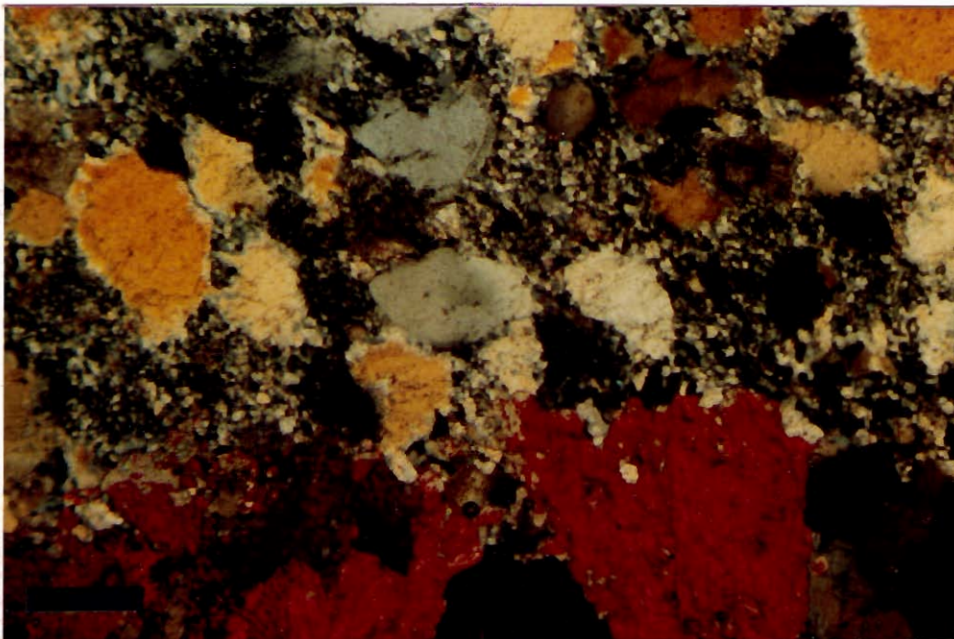


PLATE 12: Siliceous calcareous quartzite. Silica cement is fine
crystalline granular material. Collier fm., 400-10'.

XN

Q-10

Bar represents 1/4 mm

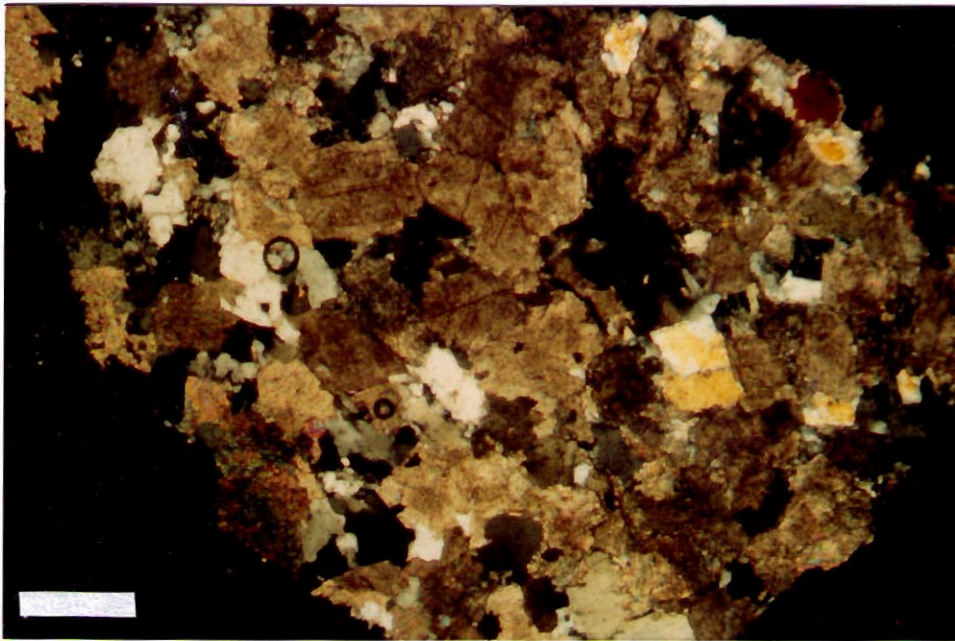


PLATE 13: Sandy meta-dolomite. Note rhombic quartz grain (center right).
Probable silica replacement of dolomite or quartz overgrowth filling
a void. Collier fm., 480-90'.
XN Q-11 Bar represents 1/4 mm

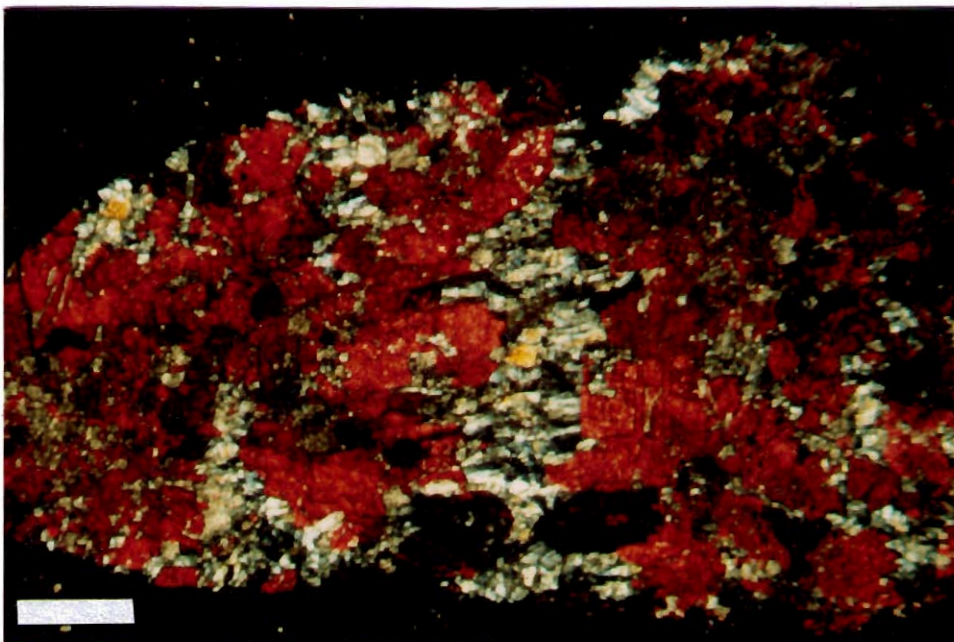


PLATE 14: Chalcedony void filling in marble. Calcite stained red.
Collier fm., 560-70'.
XN Q-12 Bar represents 1/4 mm



PLATE 15: Metamorphosed dolomite crystals in talc schist. Collier fm.,
650-60'.

XN

Q-13

Bar represents 1/4 mm

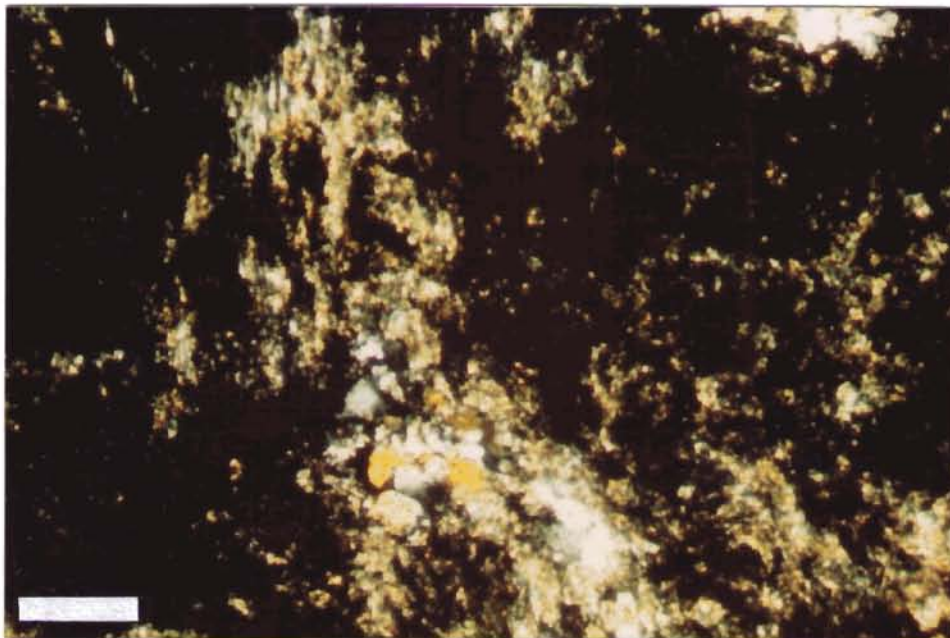


PLATE 16: Graphitic sericitic sandy phyllite. Sericite is fibrous
greenish-tan mineral. Collier fm., 650-60'.

XN

P-7

Bar represents 1/4 mm

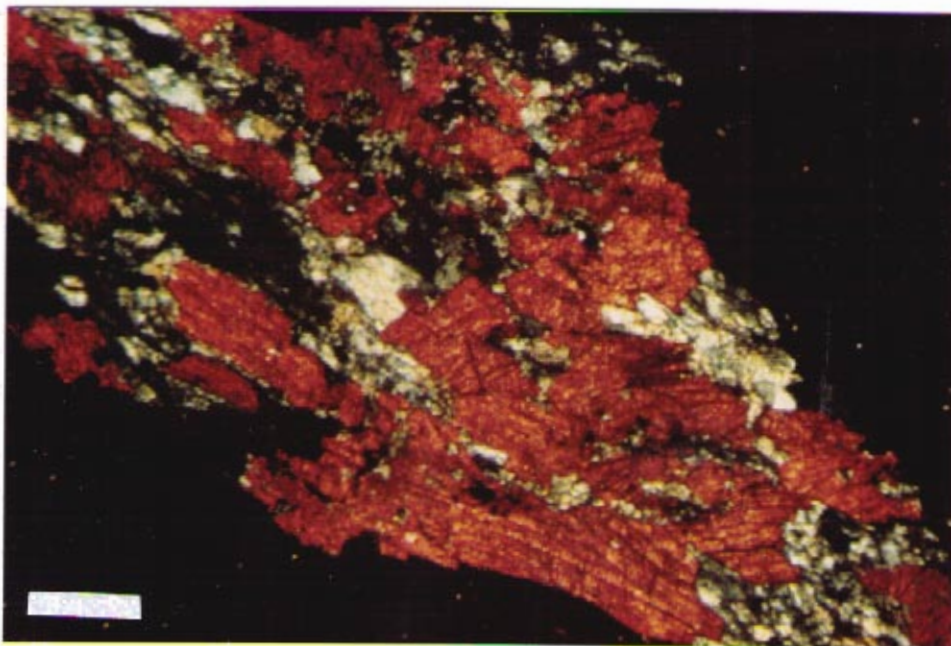


PLATE 17: Dolomite and silica void filling in marble. Collier fm.,
780-90'.

XN

Q-14

Bar represents 1/4 mm

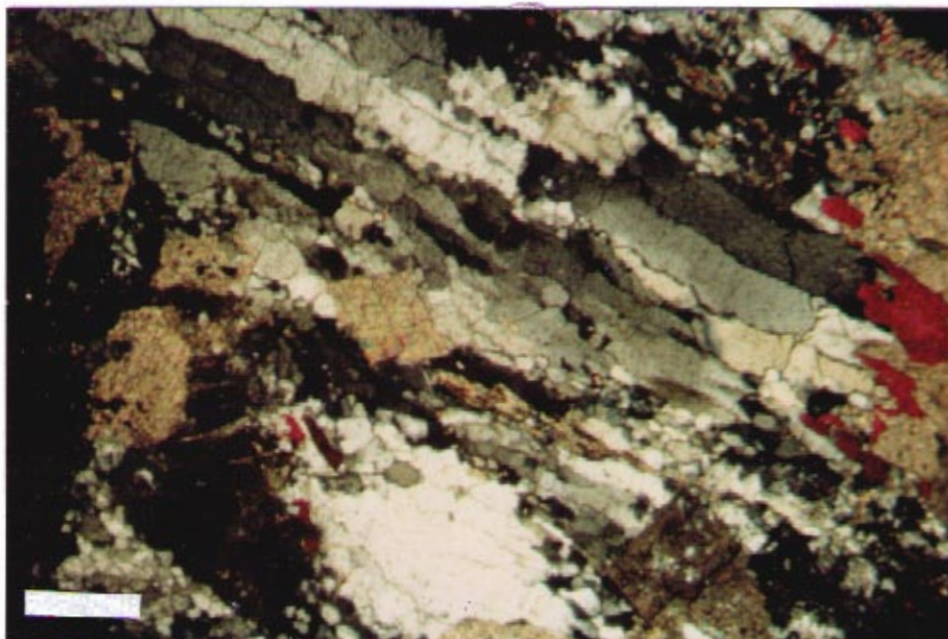


PLATE 18: Oriented quartz in slightly calcareous meta-dolomite. Calcite
stained red. Collier fm., 800-10'.

XN

Q-15

Bar represents 1/4 mm

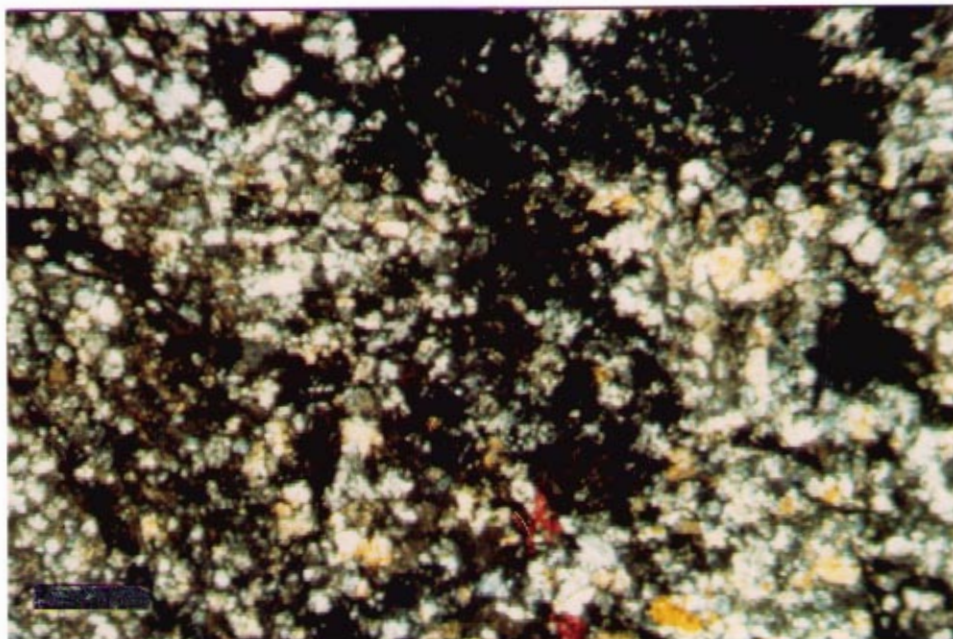


PLATE 19: Slightly calcareous graphitic siliceous quartzite. Graphite is black debris. Collier fm., 800-10'.

XN

Q-16

Bar represents 1/4 mm

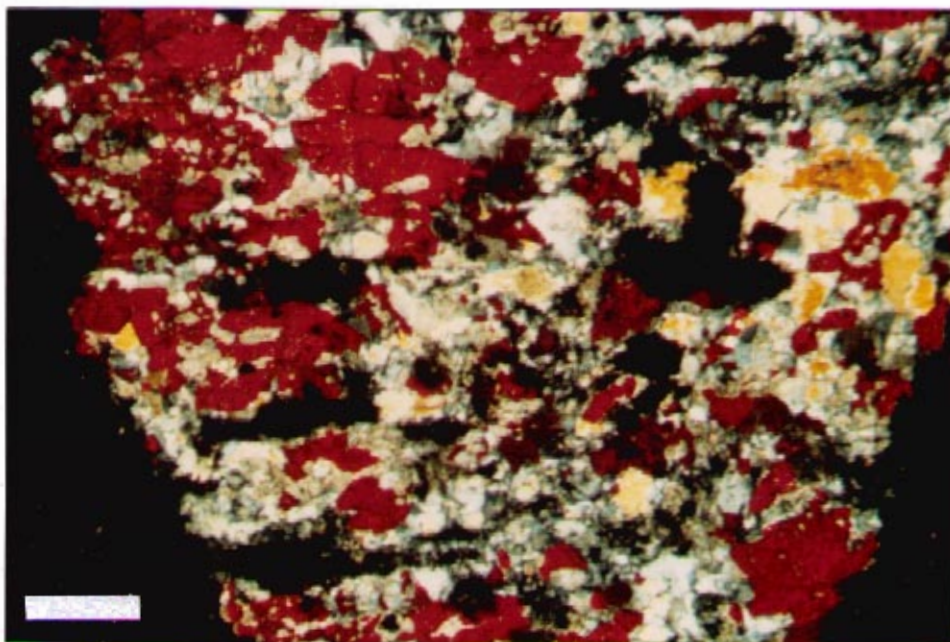


PLATE 20: Calcareous graphitic siliceous quartzite calcite stained red, graphite - black, silica - blue gray. Collier fm., 960-70'.

XN

Q-17

Bar represents 1/4 mm

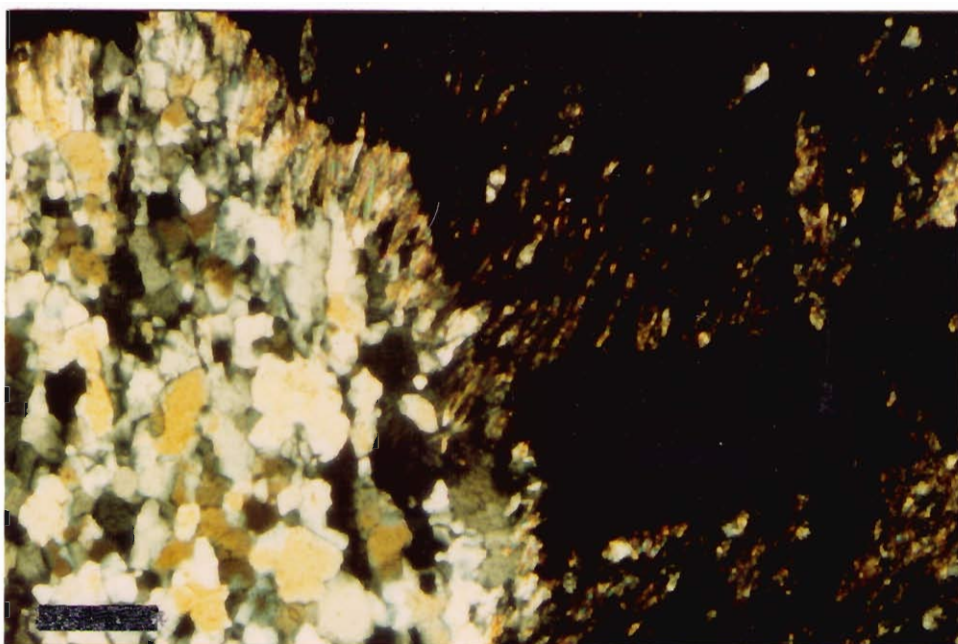


PLATE 21: Graphitic sericitic phyllite with quartzite lenses. Sericite is fibrous tan material. Note how sericite appears to form a "halo" around the quartzite. Collier fm., 1130-40'.

XN

P-8

Bar represents 1/4 mm

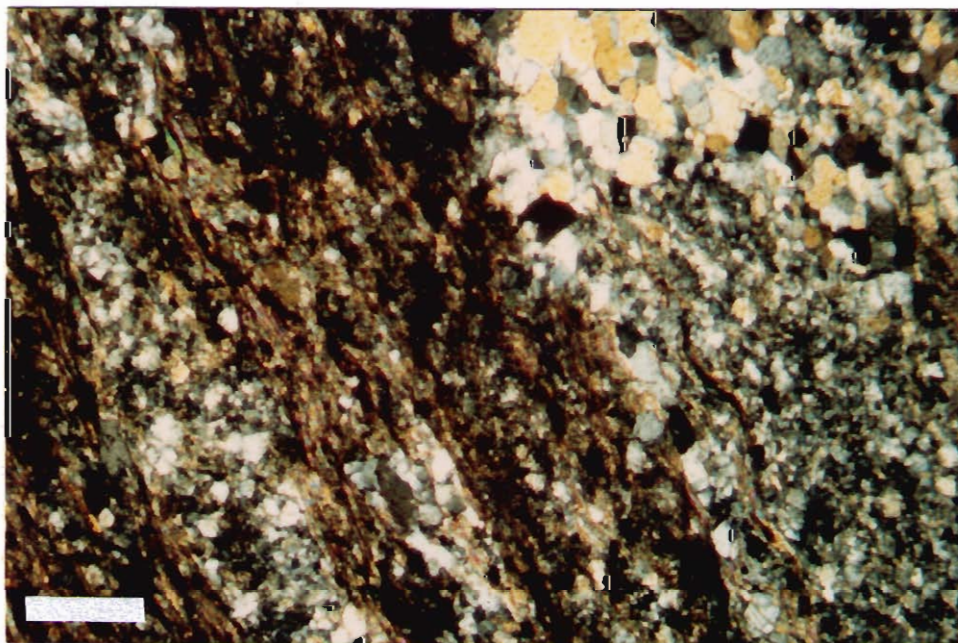


PLATE 22: Thin siliceous quartzite partings in foliated mica schist. Note sutured contacts between quartz grains. Collier fm., 1130-40'.

XN

Q-18

Bar represents 1/4 mm

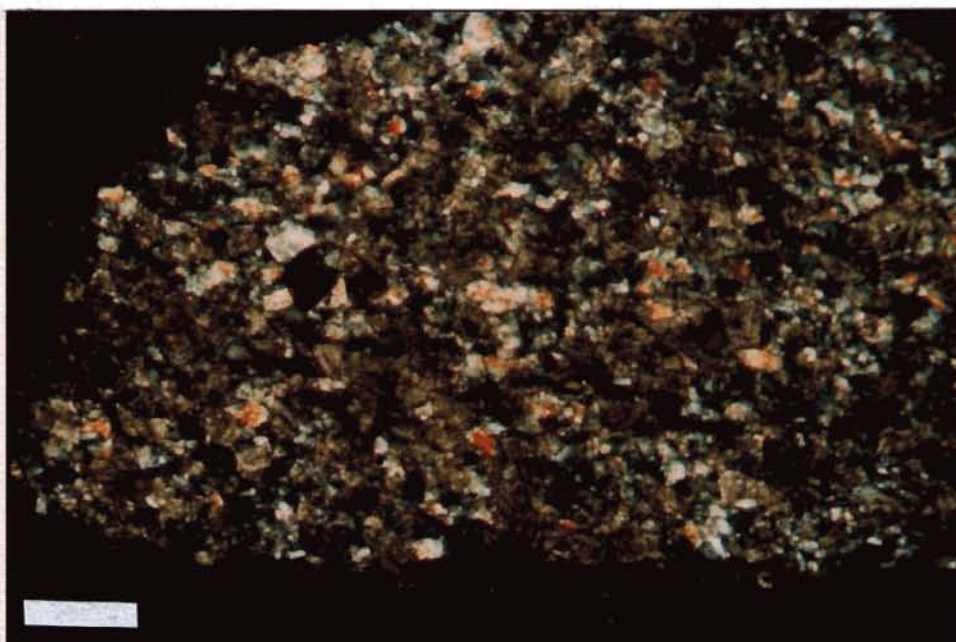


PLATE 23: Very sandy meta-dolomite. Collier fm., 1400-10'.
XN Q-19 Bar represents 1/4 mm

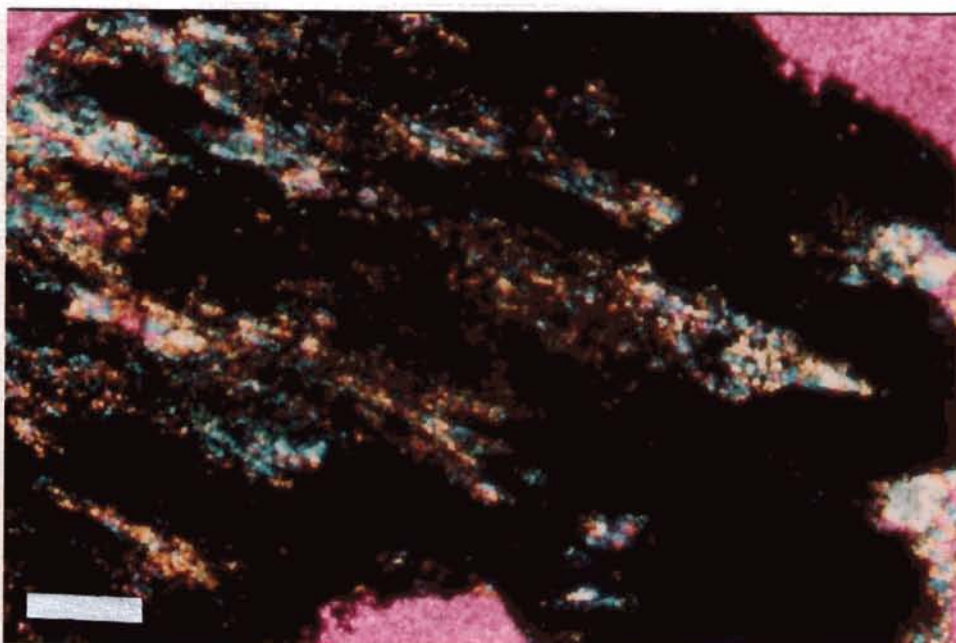


PLATE 24: Sandy sericite graphitic phyllite. A gypsum plate was inserted to create the magenta color to distinguish the graphite from the glass slide Collier fm., 1520-30'.
XN - GP Q-20 Bar represents 1/4 mm

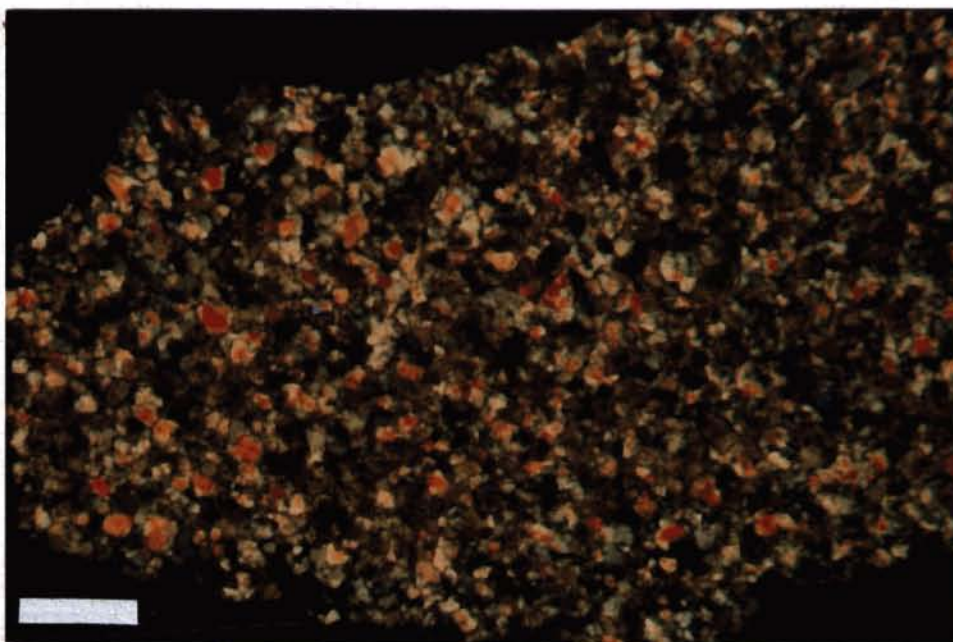


PLATE 25: Very fine grain dolomitic quartzite. Note well formed dolomite crystals to the detriment of the quartz. Apparently the dolomite is a replacement product. Collier fm., 1520-30'.

XN

Q-21

Bar represents 1/4 mm

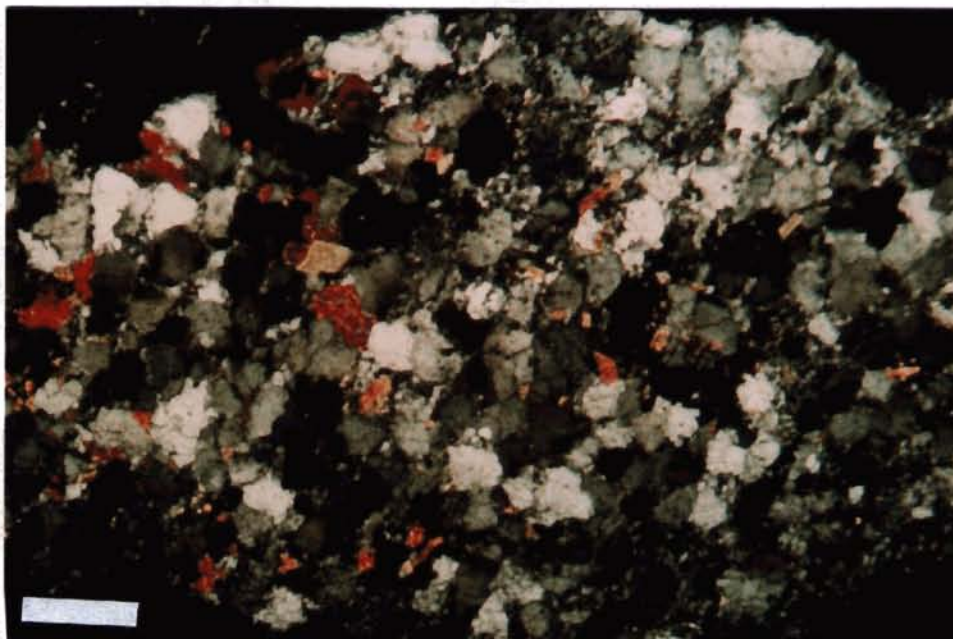


PLATE 26: Slightly calcareous and dolomitic well sorted quartzite. Note the sutured contacts between the quartz grains and the highly fractured nature of the quartz. Collier fm., 1820-30'.

XN

Q-22

Bar represents 1/4 mm

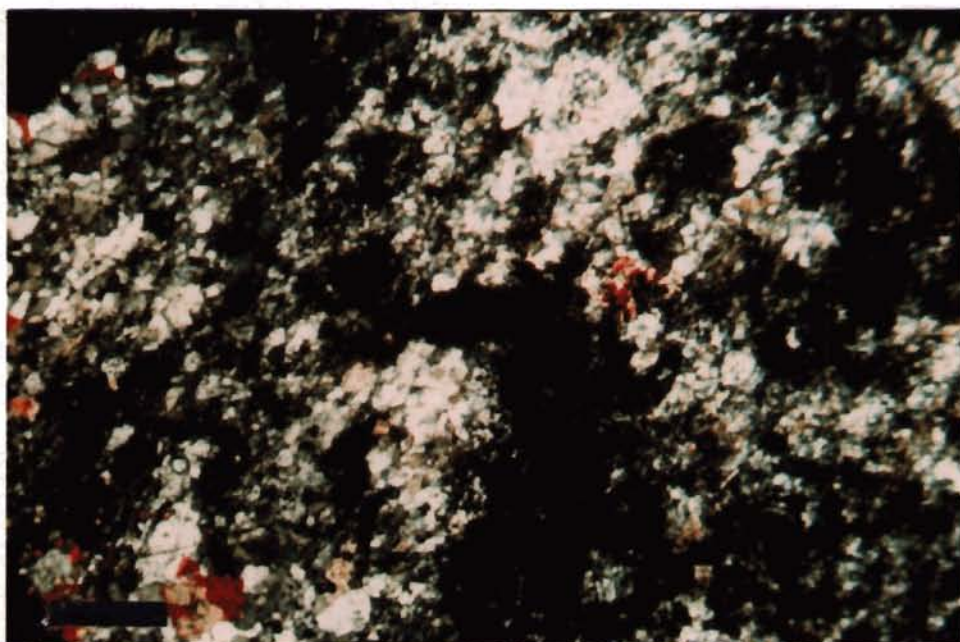


PLATE 27: Graphitic slightly calcareous quartzite. Collier fm.,
1860-70'.

XN

Q-23

Bar represents 1/4 mm

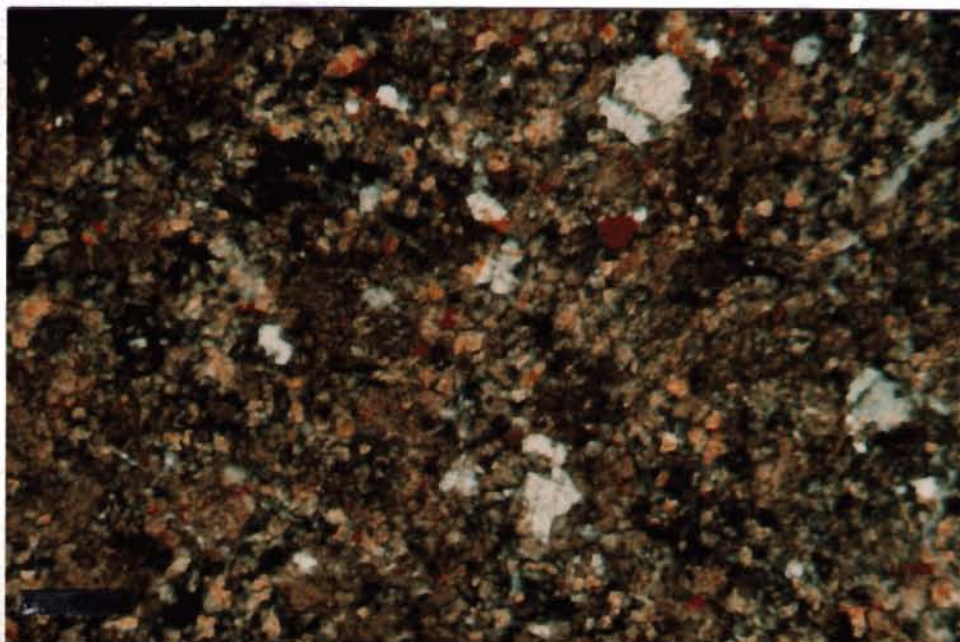


PLATE 28: Dolomitic quartzite. Slightly calcareous. Note poor sorting
of quartz grains. Collier fm., 1860-70'.

XN

Q-24

Bar represents 1/4 mm

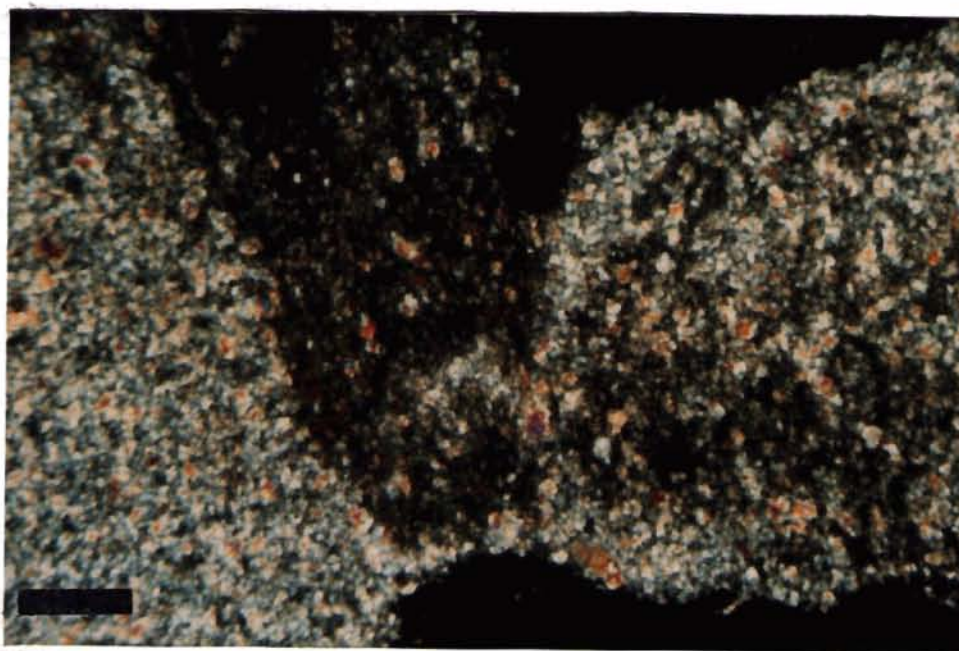


PLATE 29: Very fine grained siliceous quartzite. Slightly argillaceous.
Collier fm., 2020-30'.

XN

Q-26

Bar represents 1/4 mm

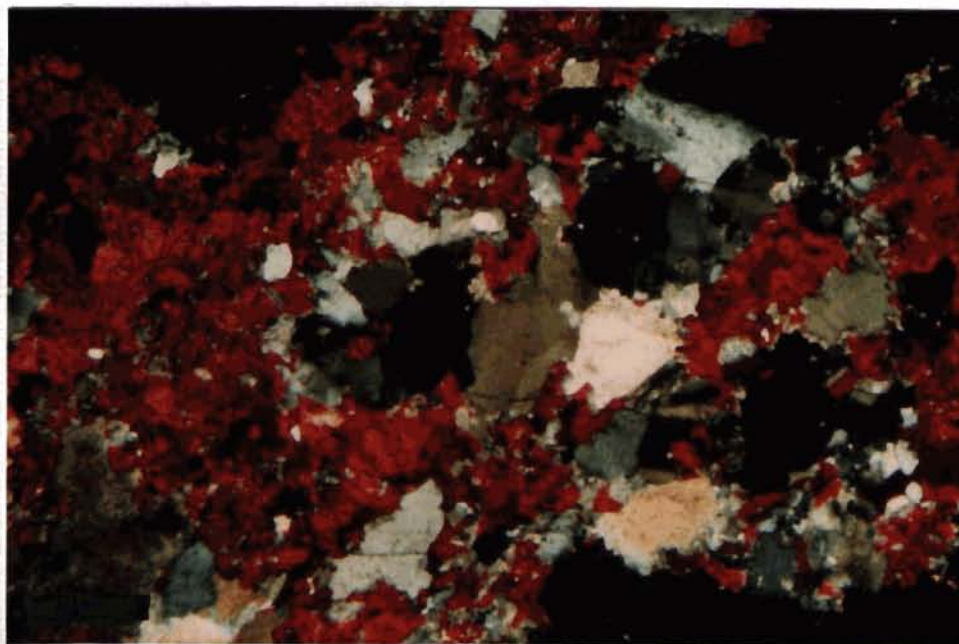


PLATE 30: Sandy dolomitic marble. Note sutured contact between quartz
grains. Collier fm., 2090-00'.

XN

Q-27

Bar represents 1/4 mm

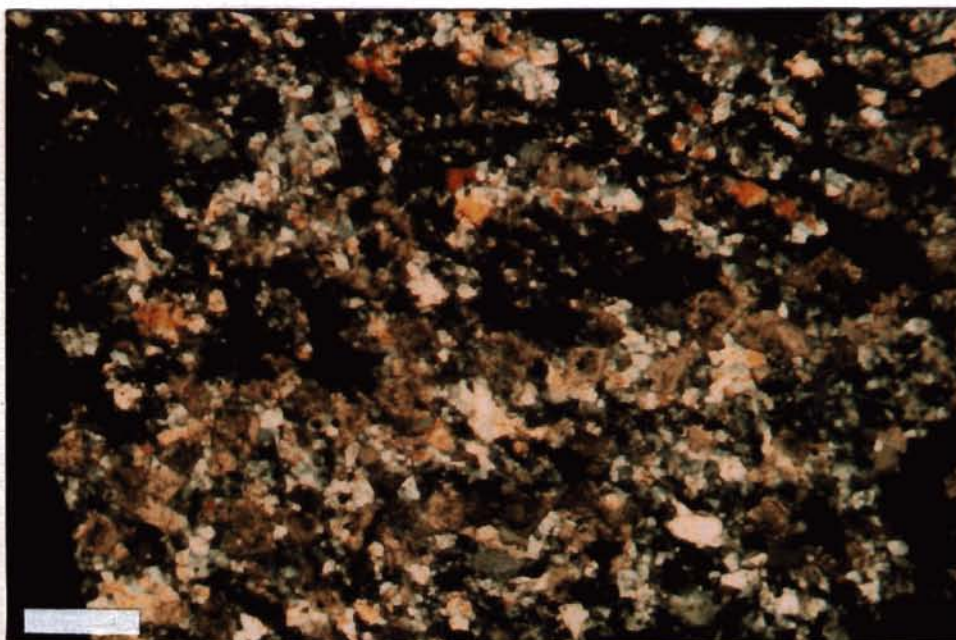


PLATE 31: Very dolomitic graphitic quartzite. Note well formed dolomite crystals replacing quartz. Collier fm., 2090-00'.
XN Q-28 Bar represents 1/4 mm

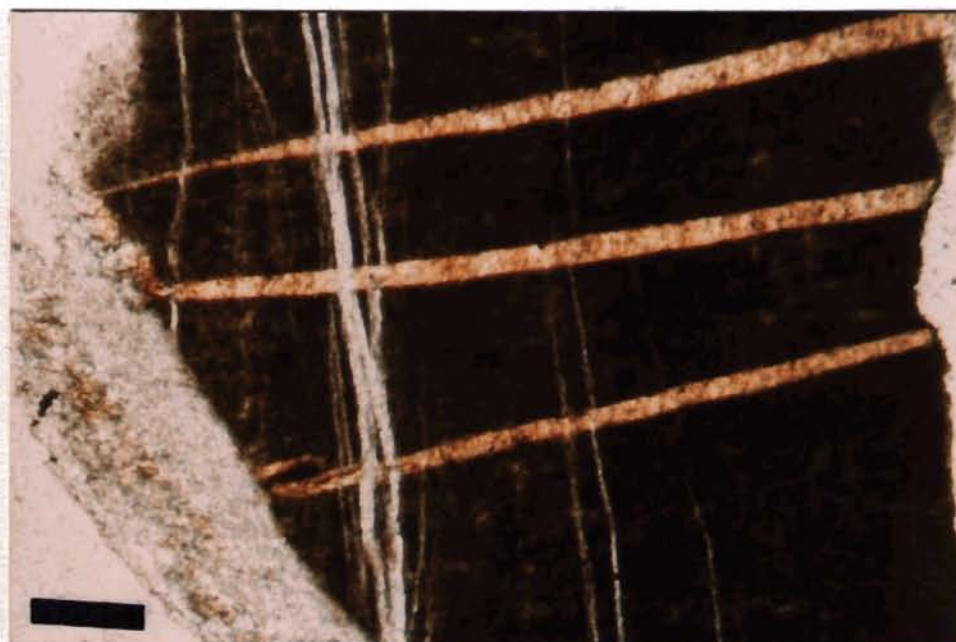


PLATE 32: Very fractured graphitic phyllite. Note different fracture fillings with the horizontal fractures filled with a "dirty" quartz and the vertical fractures filled with clear chalcedony. Large white area at lower left is a large chalcedony filled fracture. Collier fm., 2090-00'.

Q-29

Bar represents 1/4 mm