THIN SECTION LABEL ID: **375-U1518F-10R-1-W 55/58-TSB-TS** TS no.: 1

Requestor Group: Structure Observer: AF

Summary Description

Mudstone with fine fracture mesh, from hanging wall section above frontal thrust

Plane-polarized

46257391

Cross-polarized

46257411

MICROSTRUCTURES

Microstructure: fracture Rock name: Mudstone

Microstructure comment: Anastomosing fine filled fractures

Detailed description Anastomosing fine fractures in mudstone. The fractures are filled with clay and silt, and form a tabular anastomosing network that is 1 - 2 cm wide and made up of fractures that vary in thickness from less than 0.1 to about 1 mm.

Feature type	Observation	Intensity rank
Fabric intensity	strong	n/a
Fracture abundance	common	n/a
Fault rock intensity	dense anastomosing fracturing and incipient breccia	3
Fault sense of shear	indeterminate	n/a

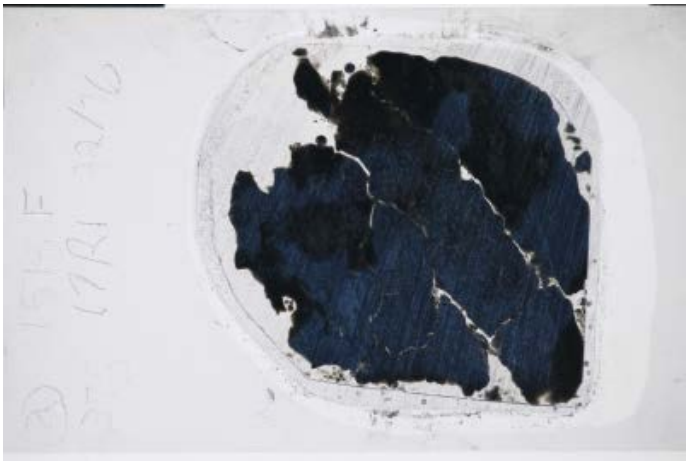
THIN SECTION LABEL ID: **375-U1518F-17R-1-W 32/36-TSB-TS02** TS no.: 2

Requestor Group: Structure Observer: AF

Summary Description

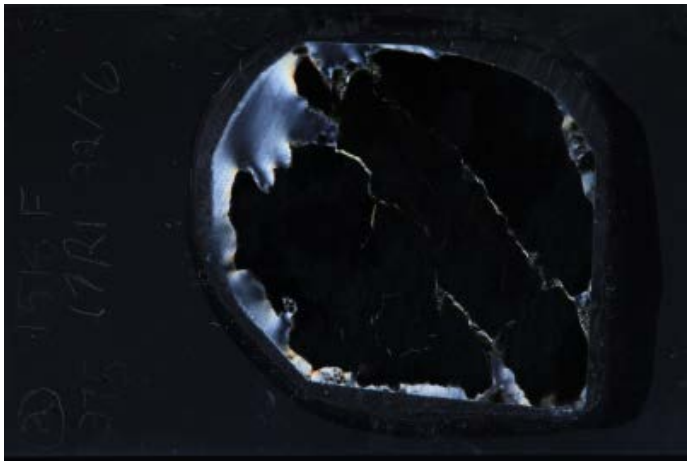
Mixed muddy and silty sediments, with silty clasts in a muddy matrix

Plane-polarized



46290541

Cross-polarized



46290561

MICROSTRUCTURES

Microstructure: color banding Rock name: Silt and mud

Microstructure comment: Clasts of silt within mud

Detailed description Mixed muddy and silty sediments, with a weak fabric defined by preferential orientation of silty clasts. Boundaries are diffuse. There are embayments of mud within the sily clasts.

Feature type	Observation	Intensity rank
Fabric intensity	weak	n/a
Fracture abundance	rare	n/a

THIN SECTION LABEL ID: **375-U1518F-18R-2-W 40/42-TSB-TS03** TS no.: 3

Requestor Group: Structure Observer: AF

Summary Description

Fine grained 1 - 2 mm thick zone along a silt-mud boundary. Fine (sub-mm) open fracture lie within the fine grained zone and at a low angle to its boundaries.

Plane-polarized

46290581

Cross-polarized

46290601

MICROSTRUCTURES

Microstructure: color banding Rock name: Mud-silt boundary

Microstructure comment: Fine grained tabular zone along lithological boundary

Detailed description Fine grained, 1 - 2 mm thick, zone at the boundary between distinct lithological layers. The zone is characterised by fine, sub-mm, open fractures as well as its finer grain size. These fractures may not be natural, but are largely constrained to the fine grained zone, and lie at a low angle to its boundaries.

Feature type	Observation	Intensity rank
Fabric intensity	weak	n/a
Fracture abundance	rare	n/a
Fault rock intensity	minor fracturing	1
Fault sense of shear	indeterminate	n/a