

THIN SECTION LABEL ID: **400-U1603A-8H-2-W 1/4-TSB-TS#1**

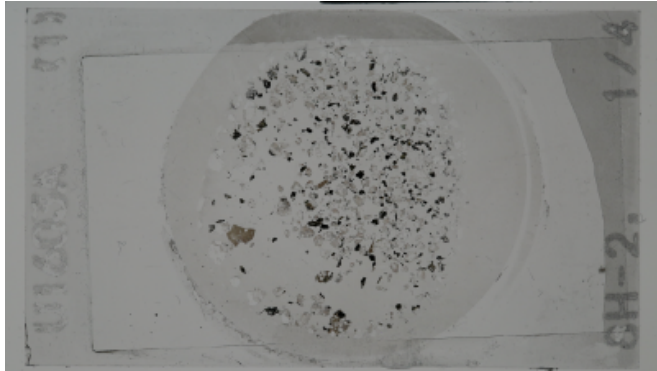
Thin section no.: **1**

Observer: TF

Unit/subunit:

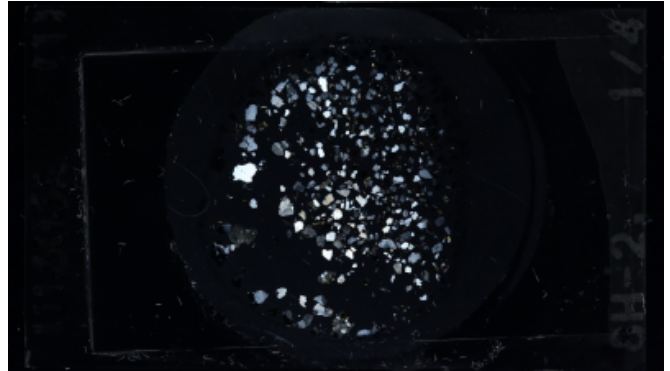
Thin section summary: Grain mount made from bleb of black-coated sand. Grains are dominated by igneous rock fragments, with feldspar, mica, and quartz grains. Many feldspars are undergoing alteration. Opaque material coats grains and impacts biotite in particular. Based on examination under reflected and transmitted light, the opaque material is an iron sulfide mineral.

Plane-polarized



73355821

Cross-polarized



73358571

Sediments & Sedimentary Rock

Lithology: fine sand

Lithic grains specifics:	igneous, sedimentary	Lithic grains comments:	Plutonic igneous rock fragments dominate; rare mudrock fragments
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Mineral grains:	quartz, feldspar, mica	Mineral grain comments:	Feldspar is abundant (many grains sercitized), quartz is rare, mica is common
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Microfabric/deformation:		Textural maturity:	Low	Mineralogical maturity:	Low
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Cement mineralogy:	other	Cement mineralogy and type:	Iron sulfide (pyrite?) coatings on grains, especially mica minerals
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THIN SECTION LABEL ID: **400-U1603B-26F-CC-PAL-FORAM-TSB#2-TS#2**

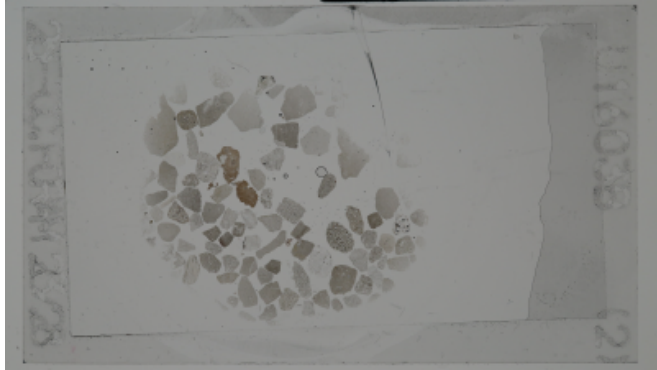
Thin section no.: **2**

Observer: TF

Unit/subunit:

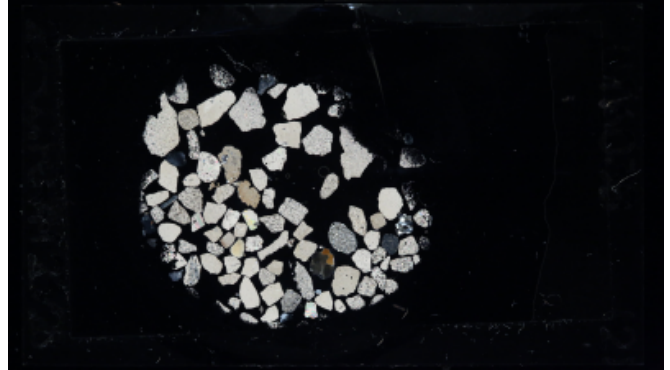
Thin section summary: Grain mount made of >1mm size fraction from core catcher. Clasts dominated by variably dolomitized limestone (with altered fossils) and dolostone. Plutonic igneous, siltstone, and chert rock fragments are also present.

Plane-polarized



73364541

Cross-polarized



73364561

Sediments & Sedimentary Rock

Lithology: very coarse sand

Lithic grains specifics:	sedimentary, igneous	Lithic grains comments:	Dominated by carbonate, with sandstone, siltstone, chert, and igneous (plutonic) rock fragments. Carbonate clasts are variably dolomitized, some contain poorly preserved fossil material or silicified ooids.
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Macrofossils:	coral, other	Comments on fossils:	Evident in carbonate clasts (much older material)
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THIN SECTION LABEL ID: **400-U1603B-26F-CC-PAL-FORAM-TSB#2-TS#4**

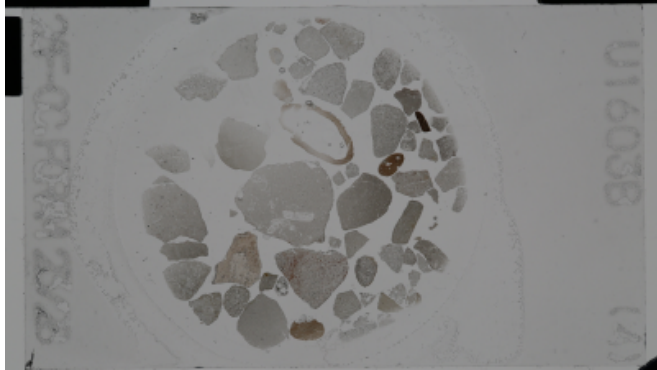
Thin section no.: **4**

Observer: TF

Unit/subunit:

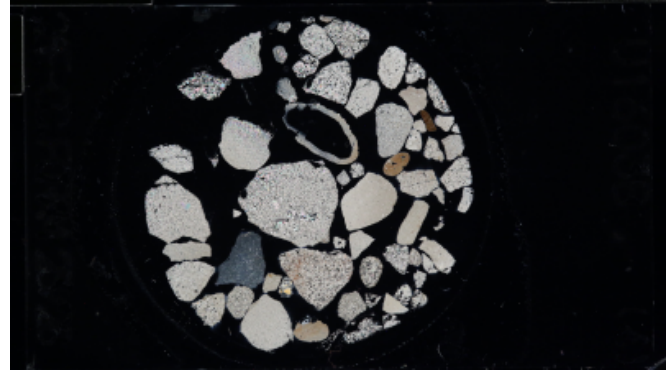
Thin section summary: Grain mount made of >1mm size fraction from core catcher. Clasts dominated by variably dolomitized limestone and dolostone. Plutonic igneous, siltstone, and chert rock fragments are also present.

Plane-polarized



73414911

Cross-polarized



73414931

Sediments & Sedimentary Rock

Lithology: very coarse sand

Lithic grains specifics:	sedimentary, igneous	Lithic grains comments:	Dominated by carbonate, with sandstone, siltstone, chert, and igneous (plutonic) rock fragments. Carbonate clasts are variably dolomitized, some contain poorly preserved fossil material or silicified ooids.
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Macrofossils:	coral, other	Comments on fossils:	Evident in carbonate clasts (much older material)
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THIN SECTION LABEL ID: **400-U1603C-8R-2-W 34/36-TSB-TS#3**

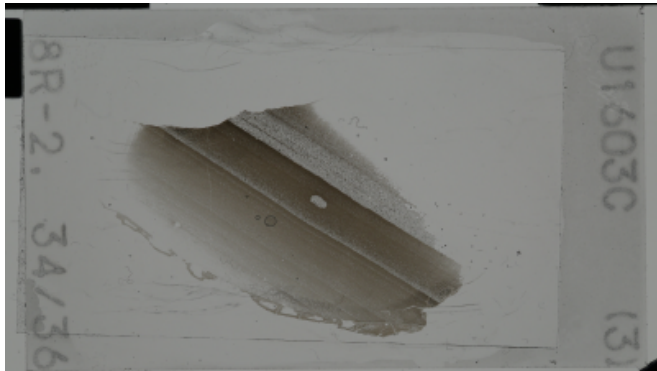
Thin section no.: **3**

Observer: TF

Unit/subunit:

Thin section summary: Carbonate concretion. Mudstone with very fine sand-silt laminae that fine upward.

Plane-polarized



73414971

Cross-polarized



73414951

Sediments & Sedimentary Rock

Lithology: siltstone

Lithic grains specifics:	sedimentary	Lithic grains comments:	Concretion/siltstone		
Mineral grains:	quartz, feldspar, pyroxene, mica, other	Mineral grain comments:	Dominant quartz, common feldspar, abundant pyroxene, and trace mica. Common opaque minerals		
Microfabric/deformation:		Textural maturity:	Low	Mineralogical maturity:	Low
Grain-to-grain contacts:	point	Matrix comments:			
Cement mineralogy:	carbonate	Cement mineralogy and type:	Intergranular		
Porosity:	low porosity	Porosity rank:	2	Porosity type:	

THIN SECTION LABEL ID: **400-U1603D-11R-2-W 103/105-TSB#4-TS#5**

Thin section no.: **5**

Observer: **TF**

Unit/subunit: **IIB**

Thin section summary: **Concretion or cemented interval of interlaminated mud and silt/vf sand. Silt/sand laminae show normal grading and are cemented with calcite.**

Plane-polarized



73588961

Cross-polarized



73588981

Sediments & Sedimentary Rock

Lithology: **mud**

Mineral grains:	quartz, feldspar, mica, other	Mineral grain comments:	Quartz and feldspars are abundant; biotite is common; dolomite rhombs occur in trace amounts
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Microfabric/deformation:		Textural maturity:	Low	Mineralogical maturity:	Low
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Grain-to-grain contacts:	floating, point	Matrix comments:	
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Cement mineralogy:	carbonate	Cement mineralogy and type:	Intergranular in fine sand/silt laminae
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Porosity:	low porosity	Porosity rank:	2	Porosity type:	Primary
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THIN SECTION LABEL ID: **400-U1603E-2H-1-W 16/18-TSB-TS#6**

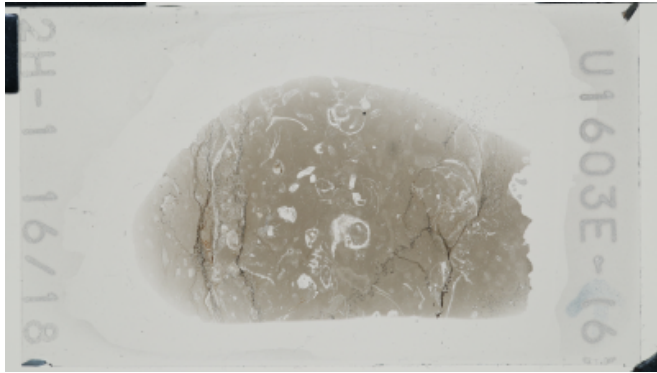
Thin section no.: **6**

Observer: TF

Unit/subunit: I

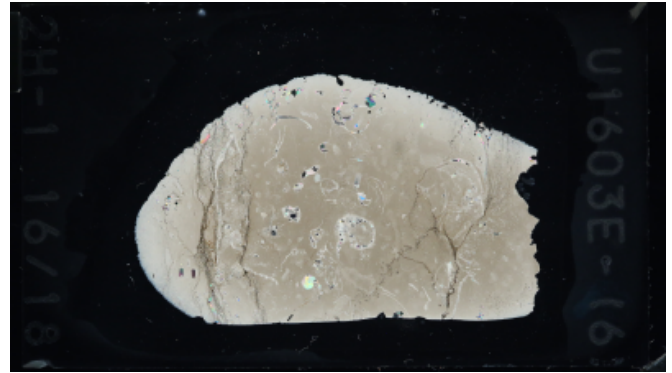
Thin section summary: Clast interpreted as ice-rafted debris. Skeletal wackestone containing a Paleozoic marine assemblage that includes molluscs, brachiopods, and crinoids. Mollusk shells have been replaced with coarse calcite. Some dolomitization of the matrix evident as large rhombs.

Plane-polarized



73588581

Cross-polarized



73588681

Sediments & Sedimentary Rock

Lithology: calcareous

Lithic grains specifics:	igneous	Lithic grains comments:	Whole sample is a skeletal wackestone
Macrofossils:	echinoid, mollusc, other	Comments on fossils:	Paleozoic assemblage of brachiopods, crinoids, and mollusks
Grain-to-grain contacts:		Matrix comments:	Carbonate matrix
Cement mineralogy:	carbonate	Cement mineralogy and type:	Calcite replacing mollusks; some dolomite rhombs in matrix