

Site 1042, Hole A, Core 1R - Cored: 48.70 -57.80 mbsf

1042A-1R

1042A-2R

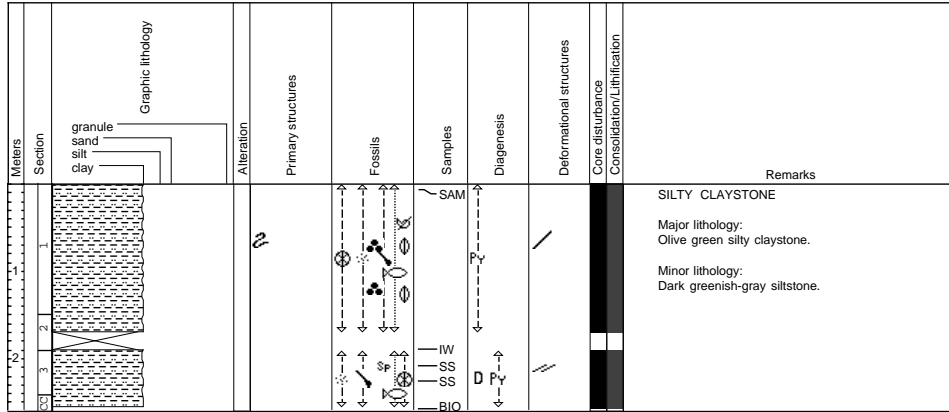
Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1	1	granule sand silt clay				SAM SS IW	PY			<p>SILTY CLAYSTONE</p> <p>Major lithology: Green to grayish green silty claystone.</p> <p>Minor lithology: Grayish green volcanic ash mixed with silty claystone with diatoms.</p>
2	2					SS BIO				

Site 1042, Hole A, Core 2R - Cored: 96.10 - 105.70 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1	1	granule sand silt clay				IW SAM SS		MA		<p>SILTY CLAYSTONE</p> <p>Major lithology: Dark olive green silty claystone.</p>
2	2					BIO		MA		



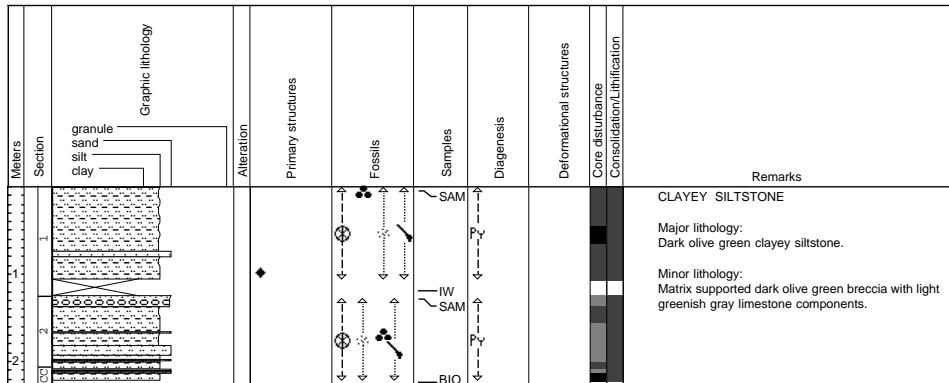
Site 1042, Hole A, Core 3R - Cored: 153.70 - 163.30 mbsf



1042A-3R

1042A-4R

Site 1042, Hole A, Core 4R - Cored: 201.70 - 211.30 mbsf



Site 1042, Hole A, Core 5R - Cored: 211.30 - 220.90 mbsf

1042A-5R

1042A-6R

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1		granule sand silt clay				IW SS SAM	Py			CLAYSTONE AND LIMESTONE  Major lithologies: 1) Dark olive green claystone with diatoms.  2) Light greenish gray limestone.
2						SS BIO	Py			

Site 1042, Hole A, Core 6R - Cored: 220.90 - 230.50 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1		granule sand silt clay				IW SAM				SILTY CLAYSTONE  Major lithology: Dark grayish green silty claystone.  Minor lithology: Light gray limestone.
2						SS	D			
3										

Site 1042, Hole A, Core 7R - Cored: 230.50 - 240.10 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance		Remarks
									Consolidation	Lithification	
1	1	granule sand silt clay									<p>SILTY CLAYSTONE</p> <p>Major lithology: Dark gray green silty claystone.</p> <p>Minor lithologies: 1) Dark green gray sandstone. 2) Light gray limestone with glauconite sand grains.</p>
2	2					IW SAM Py BIO					

1042A-7R

1042B-1R

1042B-2R

SITE 1042

Site 1042, Hole B, Core 1R - Cored: 316.00 - 323.50 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance		Remarks
									Consolidation	Lithification	
1	1	granule sand silt clay									<p>CARBONATE-CEMENTED BRECCIA AND LIMESTONE</p> <p>Major lithologies: 1) Gray to light gray carbonate-cemented breccia with clasts &gt; 5 cm of layered carbonate-cemented sandstone. 2) Yellowish brown to greenish brown micritic limestone.</p>
2	2					XRF XRF XRF XRF THS XRF XRF XRF XRD					

Site 1042, Hole B, Core 2R - Cored: 323.50 - 333.10 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance		Remarks
									Consolidation	Lithification	
1	1	granule sand silt clay									<p>SANDSTONE, CARBONATE-CEMENTED BRECCIA, AND LIMESTONE</p> <p>Major lithologies: 1) Light greenish white to gray carbonate-cemented sandstone. 2) Gray to light gray carbonate-cemented breccia with clasts &gt;10 cm of layered carbonate-cemented sandstone. 3) Yellowish brown to greenish brown micritic limestone.</p>
						XRF XRF THS					

Site 1042, Hole B, Core 3R - Cored: 333.10 - 342.70 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
0	1	granule sand silt clay								CARBONATE-CEMENTED SANDSTONE AND LIMESTONE  Major lithologies: 1) Gray to light gray carbonate-cemented sandstone. 2) Yellowish brown to greenish brown micritic limestone.
						IW BIO				

1042B-3R

1042B-4R

1042B-5R

Site 1042, Hole B, Core 4R - Cored: 342.70 - 352.30 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
0	1	granule sand silt clay								BRECCIA WITH DOLERITIC BASALT AND CHERT  Major lithology: Dark grayish-green carbonate-cemented breccia with > 2cm clasts of doleritic basalt and chert.  [hole fill with carbonate-cemented sandstone and micritic limestone]
						THS XRF THS				

Site 1042, Hole B, Core 5R - Cored: 352.30 - 361.90 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
0	1	granule sand silt clay								BRECCIA WITH DOLERITIC BASALT AND CHERT, SILTY CLAYSTONE; BRECCIA WITH SANDSTONE AND CHERT, SILTSTONE  Major lithologies: 1) Dark grayish green carbonate-cemented breccia with > 2cm clasts of doleritic basalt and chert. 2) Dark olive green silty claystone with sandstone and claystone. 3) Dark grayish green matrix-supported breccia with components of green sandstone and dark red chert. 4) Dark olive green siltstone with sandstone and claystone.  [hole fill with pebbles of dark olive green clayey siltstone, yellowish brown micritic limestone and light grayish green sandstone with glauconite.]
						THS XRF THS SS SS SAM IW BIO				

Site 1042, Hole B, Core 6R - Cored: 361.90 - 371.50 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1	1	granule sand silt clay				IV				SILTY CLAYSTONE Major lithology: Dark olive green silty claystone.
2	2					BIO				

1042B-6R

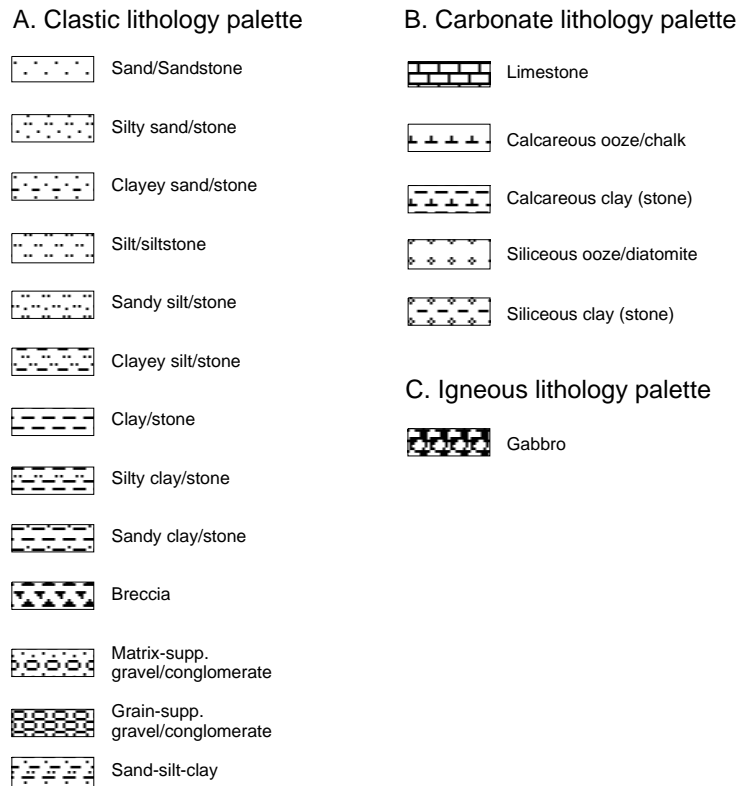
1042B-8R

1042B-7R NO RECOVERY







Site 1042, Hole B, Core 8R - Cored: 381.20 - 390.80 mbsf

Meters	Section	Graphic lithology	Alteration	Primary structures	Fossils	Samples	Diagenesis	Deformational structures	Core disturbance Consolidation/Lithification	Remarks
1	1	granule sand silt clay				SAM SS				SILTY CLAYSTONE Major lithology: Dark gray silty claystone. Minor lithology: Light yellowish gray silty claystone with carbonate cement
2	2					SS				
3	3					SS				
4	4					BIO				

**Figure 4, Chapter 2. Patterns and symbols used for lithology, abundance, structural features, fossils, and bioturbation in AppleCORE during Leg 170.**



**Figure 5, Chapter 2. Gray-scale patterns for three data types used with customized AppleCORE visual core description program.**

	Alteration	Drilling disturbance	Lithification
Extreme 	75-100%	Flow-in; Rubble and slurry	Lithified
Strong 	50-75%	Disruption, contortion; Biscuits and slurry	Consolidated
Moderate 	25-50%	Some contortion, bending; Strongly fractured	Firm
Weak 	1-25%	Bending of layers; Slightly fractured	Soft
None 	0%	None	Soupy
Not indicated 			

**Figure 6, Chapter 2. Symbols used with customized AppleCORE visual core description program.**

PRIMARY STRUCTURES	FOSSILS	DIAGENETIC FEATURES	DEFORMATIONAL STRUCTURES
<b>Contacts</b> Sharp boundary Gradational boundary Scoured, sharp contact Scoured contact w/graded beds Intrusive contact  <b>Lamination</b> Planar laminae  <b>Bedding</b> Graded bedding Reverse graded bedding Trough cross-stratification  <b>Various accessories</b> Tephra/tuff pod Tephra layer Reduction of particle abundance Imbrication Lithoclast Isolated pebbles Mud clast Coal clasts Soft sediment deformation Load casts Slump Water escape pipes Breccia Pebble/granule layer Vug  <b>Igneous textures</b> Chilled margin	<b>Microfossils</b> Foraminifers (undifferentiated) Foraminifers (benthonic) Radiolarians Diatoms Calcareous Nannofossils Silicoflagellates Sponge spicules Spines Sponges Spores, pollen  <b>Fragments</b> Plant Remains Wood Fragment  <b>Macrofossils</b> Shell (unspecified) Shell fragments Gastropods Molluscs (undifferentiated)  <b>Fish Fossils</b> Fish remains Fish tooth  <b>Trace Fossils</b> Trace fossil (unspecified) Zoophycos  <b>Bioturbation</b> Weak bioturbation Moderate bioturbation Strong bioturbation	<b>Diagenetic minerals</b> Disseminated pyrite Disseminated glauconite Disseminated dolomite  <b>Nodules and Concretions</b> Nodule/concretion (general) Pyrite concretion Calcite concretion Dolomite concretion  <b>Cements</b> Calcite cement  <b>Miscellaneous Diagenetic Features</b> Disseminated gas hydrate Gas Hydrate nodule Layered gas hydrate Massive gas hydrate Reaction rim	Fracture Conjugate set of fractures Breccia zone Fault with brecciation Fault Reverse fault Normal fault Strike-slip fault Fracture network Stratal disruption Scaly fabric Boudinage Pinch and swell Stylolite Vein Calcite vein Sediment filled vein Deformation band Fold Fissility Sigmoidal vein Tectonized zone

**Figure 7, Chapter 2. Abundance plots associated with symbols used with customized AppleCORE visual core description program.**

