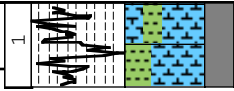



Core Photo

Site 1214 Hole A Core 1R Cored 0.0-6.9 mbsf											
METERS	SECTION	REFLECTANCE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
		52 — 68									
	1					Py			SS SS PAL		<p>Major Lithology: The sediments consist of moderate yellowish brown (10YR 5/4) and pale yellowish brown (10YR 6/2) CLAYEY FORAMINIFER NANNOFOSSIL OOZE and very pale orange (10YR 8/2) and moderate yellowish brown (10YR 5/4) CLAYEY NANNOFOSSIL OOZE WITH FORAMINIFERS.</p> <p>GENERAL DESCRIPTION: The sediment contains light/dark alternations. Contacts are moderately bioturbated. The sediment has a higher than usual component of sand-sized particles (20 to 25% foraminifer). There is pumice and well preserved pyrite-filled burrows in Section 1, 65 cm. The core is stretched in Section 1 at 115 to 120 cm.</p>

Core Photo

Site 1214 Hole A Core 2R Cored 6.9-16.4 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
										<p>Major Lithology: The core consists of fragments of moderate yellowish brown (10YR 5/4) to light olive gray (5Y 6/1) CHERT with very light gray (N8) to white (N9) PORCELLANITE.</p> <p>General Description: Microfossils in the CHERT and PORCELLANITE include foraminifers and radiolarians. Burrows are locally filled with PORCELLANITE.</p>


Core Photo

Site 1214 Hole A Core 3R Cored 16.4-25.9 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>Major Lithology: The core consists of fragments of moderate yellowish brown (10YR 5/4) to moderate olive brown (5Y 4/4) CHERT and yellowish gray (5Y 8/1) PORCELLANITE, with local coatings of white (N9) NANNOFOSSIL CHALK.</p> <p>General Description: The PORCELLANITE occurs as separate fragments, as well as coatings and burrow fills on the CHERT. The contacts between CHERT and PORCELLANITE are irregular and patchy in some fragments. All fragments are "rollers" and preserve no stratigraphic order.</p>



Core Photo

Site 1214 Hole A Core 4R Cored 25.9-34.5 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
										<p>Major Lithology: The core consists of several fragments of CHERT and CHERT WITH PORCELLANITE. The CHERT ranges from light olive gray (5Y 5/2) to moderate yellowish brown (10YR 5/4) to dark yellowish orange (10YR 6/6) in color. The PORCELLANITE is yellowish gray (5Y 8/1)</p> <p>General Description: There are very irregular contacts between the CHERT and PORCELLANITE, with slightly darker aureoles around CHERT inclusions. Radiolarians and foraminifers are present in both lithologies.</p>



Core Photo

Site 1214 Hole A Core 5R Cored 34.5-43.2 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>Major Lithology: The core consists of dark gray (N3) to grayish black (N2) CHERT at 0 to 10 cm and 15 to 23 cm.</p> <p>Minor Lithology: CALCAREOUS PORCELLANITE WITH NANNOFOSSILS AND CALCITIZED RADIOLARIANS are very light gray (N7) streaked with purplish gray and contains isolated pods of CHERT.</p> <p>General Description: CHERT has PORCELLANITE boundaries and is burrow mottled.</p>

Core Photo

Site 1214 Hole A Core 6R Cored 43.2-52.6 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								SS		<p>Major Lithology: The dominant lithologies are medium dark gray (N4) to dark gray (N3) CHERT and very light gray (N8) to light gray (N7) PORCELLANITE.</p> <p>General Description: This core contains alternating CHERT and PORCELLANITE. The PORCELLANITE has abundant burrows and the CHERT has faint evidence of burrowing suggesting that it is replacing the PORCELLANITE. The PORCELLANITE contains nanofossils and radiolarians that have been calcitized.</p>


Core Photo

Site 1214 Hole A Core 7R Cored 52.6-62.3 mbsf;										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>PAL </p> <p>Major Lithology: This core consists of grayish black (N2) to dark gray (N3) CHERT and very light gray PORCELLANITE.</p> <p>General Description: CHERT and PORCELLANITE have moderate burrowing at 6 to 25 cm in Section 1. The burrows are mm-scale to cm-scale. CHERT and PORCELLANITE boundaries are bioturbated.</p>


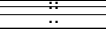
Core Photo

Site 1214 Hole A Core 8R Cored 62.3-72.0 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
										<p>Major Lithology: This core consists of grayish black (N2) CHERT and very light gray (N8) PORCELLANITE.</p> <p>General Description: Bioturbation is rare throughout. CHERT is present as nodules in PORCELLANITE.</p>

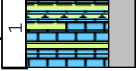
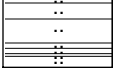
Core Photo

Site 1214 Hole A Core 9R Cored 72.0-81.7 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1									gy BK	<p>Major Lithology: Dark gray to grayish black (N2-N3) CHERT.</p> <p>General Description: The pieces of brecciated CHERT have inclusions and coatings of white (N9) CHALK and/or PORCELLANITE as well as mottles and zones that are medium light gray (N6).</p>

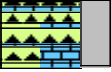

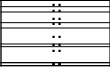
Core Photo

Site 1214 Hole A Core 10R Cored 81.7-91.4 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
82	1							PAL		<p>Major Lithology: The core consists of medium dark gray (N4) to dark gray (N3) CHERT and light greenish gray (5GY 8/1) to white (N9) PORCELLANITE.</p> <p>General Description: The core is highly brecciated from drilling. Bioturbation is rare with PORCELLANITE as burrow fillings in the CHERT. PORCELLANITE also occurs as coatings on the CHERT fragments. Between 14 and 23 cm PORCELLANITE is the more dominant lithology.</p>


Core Photo

Site 1214 Hole A Core 11R Cored 91.4-101.1 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
92	1						↑ ↓			<p>Major Lithology: The dominant lithology is grayish brown (5YR 4/1) to brownish gray (5YR 3/2) CHERT and very light greenish gray (5G 9/1) LIMESTONE WITH RADIOLARIANS.</p> <p>Minor Lithology: Light olive gray (5Y 6/1) PORCELLANITE is present in minor amounts in between contacts of LIMESTONE and CHERT.</p> <p>General Description: The CHERT contains inclusions of LIMESTONE and grades into PORCELLANITE, which grades into LIMESTONE. This gradation is most visible in the pieces from 37 to 46 cm. The LIMESTONE has burrows of slightly lighter and darker shades and the piece from 0 to 8 cm contains pyritized radiolarians. The remaining LIMESTONE in the core has calcitized radiolarians.</p>



Core Photo

Site 1214 Hole A Core 12R Cored 101.1-110.7 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
102	1									<p>Major Lithology: The dominant lithology is grayish brown (5YR 4/1) CHERT and very light greenish gray (5G 9/1) LIMESTONE WITH RADIOLARIANS.</p> <p>Minor Lithology: Light olive gray (5Y 6/1) PORCELLANITE is present in minor amounts in between contacts of LIMESTONE and CHERT.</p> <p>General Description: The CHERT contains inclusions of LIMESTONE and in places, PORCELLANITE is visible at the contact of LIMESTONE with CHERT. The LIMESTONE in the core has calcitized radiolarians.</p>





Core Photo

Site 1214 Hole A Core 13R Cored 110.7-120.4 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1							!!			<p>Major Lithology: In the intervals 0-3, 8-15, and 28-45 cm, the core consists of pieces of moderate brown (5YR 3/4) to dark gray (N3) to olive gray (5Y 4/1) CHERT WITH RADIOLARIANS with burrow fills and partial coatings of yellowish gray (5 Y 8/1) to light greenish gray (5GY 8/1) NANNOFOSSIL PORCELLANITE WITH RADIOLARIANS. In the Intervals from 3-8, 15-28 and 45-52 cm the fragments are dominantly very light gray (N8) to greenish gray (5GY 8/1) RADIOLARIAN NANNOFOSSIL PORCELLANITE, exhibiting vague laminations (flattened burrows?), and irregular contacts with CHERT inclusions.</p> <p>General Description: The CHERT contacts with PORCELLANITE are locally marked by aureoles of slightly darker gray PORCELLANITE (best example at 53-57 cm).</p>




Core Photo

Site 1214 Hole A Core 14R Cored 120.4-130.0 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1					Py					<p>Major Lithology: The core consists of alternating intervals of medium dark gray (N4) to dark gray (N3) to moderate brown (5YR 3/4) CHERT WITH RADIOLARIANS, light greenish gray (5GY 8/1), very light gray (N8), to yellowish gray (5Y 8/1) PORCELLANITE WITH RADIOLARIANS, and very light gray (N8) to light greenish gray (5GY 8/1) PORCELLANITE with irregular masses of CHERT that range in color from medium dark gray (N4) to dark yellowish brown (10YR 4/2).</p> <p>Minor Lithology: There is some white (N9) NANNOFOSSIL CHALK adhering to a few pieces of PORCELLANITE at 11 cm and 30-33 cm.</p> <p>General Description: The PORCELLANITE exhibits vague, wispy laminations and compacted burrows. There is some apparent differential compaction around irregular CHERT nodules at 60-64 to 74-78 cm. Some radiolarians are filled with pyrite at 65 cm.</p>




Core Photo

Site 1214 Hole A Core 15R Cored 130.0-139.7 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
								SS		<p>Major Lithology: The rock types in this core are very light gray (N8) NANNOFOSSIL PORCELLANITE WITH RADIOLARIANS and moderate brown (5YR 3/4) CHERT WITH RADIOLARIANS.</p> <p>Minor Lithology: There is a very minor amount of very light gray (N8) NANNOFOSSIL CHALK.</p> <p>General Description. The core consists of interbedded (~20cm-scale) CHERT and laminated PORCELLANITE. Burrows within the CHERT are filled with PORCELLANITE and very rarely NANNOFOSSIL CHALK. There has been some pyrite replacement after radiolarians.</p>




Core Photo

Site 1214 Hole A Core 16R Cored 139.7-149.3 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1								SS	vlt GY	<p>Major Lithology: The core consists of very light gray (N8) NANNOFOSSIL PORCELLANITE WITH RADIOLARIANS and moderate brown (5YR 3/4) CHERT WITH RADIOLARIANS.</p> <p>Minor Lithology: There is a very minor amount of very light gray (N8) NANNOFOSSIL CHALK.</p> <p>General Description: The core consists of alternating CHERT and PORCELLANITE. The PORCELLANITE is laminated/compressed and where present pyrite-rich microlayers are strung out. In rare cases differential compaction has occurred where there are newly forming chert nodules. Tension fractures filled with silica formed from the CHERT to PORCELLANITE transition in one fragment. Burrows are rimmed with PORCELLANITE and filled with CHALK. There is excellent preservation of foraminifers in the CHALK.</p>



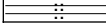
Core Photo

Site 1214 Hole A Core 17R Cored 149.3-158.8 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
150	1									<p>Major Lithology: The core consists of olive gray (5Y 4/1) CHERT and greenish gray (5G 8/1) to yellowish gray (5Y 8/1) PORCELLANITE with some pale orange pink (10R 8/4) tinges.</p> <p>General Description: CHERT has irregular contacts with porcellanite. CHERT colors vary somewhat from olive gray (5Y 4/1) to light olive gray (5Y 6/1) and moderate reddish brown (10R 5/6). CHERT is homogeneous to mottled, with burrows porcellanitized or even chalky. Laminae in PORCELLANITE commonly drape over small nodules of incipient CHERT or PORCELLANITE, possibly indicating that compaction of limestone and replacement by PORCELLANITE occurred after formation of CHERT. PORCELLANITES are smooth (not granular) and fairly homogeneous with some darker wisps and flattened burrows.</p>

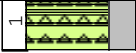

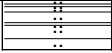
Core Photo

Site 1214 Hole A Core 18R Cored 158.8-168.5 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1									vt GY	<p>Major Lithology: The core consists of light olive gray (5Y 6/1) and very light gray (N8) NANNOFOSSIL PORCELLANITE WITH RADIOLARIANS and moderate brown (5YR 3/4) to olive gray (5Y 4/1) CHERT WITH RADIOLARIANS.</p> <p>Minor Lithology; There is a very minor component of very light gray (N8) NANNOFOSSIL CHALK.</p> <p>General Description: There are alternations of CHERT and PORCELLANITE in the core. There are light greenish gray (5G 8/1) mottles within the PORCELLANITE and rare pinch and swell structures due to differential compaction around newly forming chert nodules. In areas, pyrite replaces radiolarian tests and where there are pyrite-rich layers, they are strung out. Burrowing is more common at CHERT/PORCELLANITE boundaries. Burrows are filled with PORCELLANITE and very rarely, CHALK.</p>

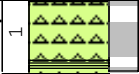

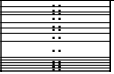
Core Photo

Site 1214 Hole A Core 19R Cored 168.5-178.1 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>Major Lithology: This core consists of moderate brown (5YR 3/4) CHERT and light greenish gray (5GY 8/1), very light gray (N8) and white (N9) NANNOFOSSIL PORCELLANITE WITH RADIOLARIANS.</p> <p>Minor Lithology: White (N9) NANNOFOSSIL CHALK is present in CHERT as burrow fill at 27 cm in Section 1.</p> <p>General Description: Tiny blebs of PORCELLANITE and CHALK are present in the CHERT. Pyrite blebs, as well as radiolarian tests replaced by pyrite, are present at 10 to 16 cm in the PORCELLANITE. Bioturbation is rare throughout the PORCELLANITE and moderate throughout the CHERT. PORCELLANITE contains sedimentary structures (e.g. parallel laminae).</p>




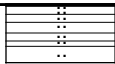
Core Photo

Site 1214 Hole A Core 20R Cored 178.1-187.7 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>Major Lithology: The dominant lithologies are moderate brown (5YR 3/4) and grayish black (N2) CHERT and very light greenish gray (5G 9/1) PORCELLANITE.</p> <p>General Description: The PORCELLANITE has burrows of slightly lighter and darker shades. There is one piece of grayish brown CHERT between 7 and 10 cm; the remainder is moderate brown. The CHERT contains small inclusions of PORCELLANITE.</p>






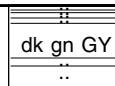
Core Photo

Site 1214 Hole A Core 21R Cored 187.7-197.3 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
188	1									<p>Major Lithology: PORCELLANITE, ranging from very light gray (N8) to light gray (N7) to light greenish gray (5GY 8/1 and 5Y 8/1) to greenish gray (5GY 6/1) to dark greenish gray (5GY 4/1), is the dominant lithology recovered in the core.</p> <p>Minor Lithology: Brownish gray (5Y 4/1) and dark gray (N3) CHERT occurs from 91 to 101 cm. Two small fragments of dark greenish gray (5GY 4/1) CLAYSTONE are present from 2-5 cm.</p> <p>General Description: Burrows are evident in many of the PORCELLANITE fragments, as are pyrite-filled burrows and microfossils.</p>

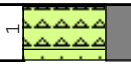
Core Photo

Site 1214 Hole A Core 22R Cored 197.3-207.0 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
198	1									<p>Major Lithology: This core consists of light greenish gray (5G 8/1 and 5GY 8/1) PORCELLANITE WITH RADIOLARIANS and moderate brown (5YR 3/4), dark yellowish brown (10YR 4/2), medium bluish gray (5B 5/1) and dark gray (N3) CHERT.</p> <p>General Description: The PORCELLANITE is laminated and commonly bioturbated. The CHERT contains small inclusions of PORCELLANITE. Some CHERT exhibits mottles of varying color, which are bioturbated. There is a CHERT nodule at 42 to 45 cm in Section 1.</p>


Core Photo

Site 1214 Hole A Core 23R Cored 207.0-216.6 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
208	1							SS		<p>Major Lithology: This core consists of dark greenish gray (5G 4/1) and greenish gray (5G 6/1) PORCELLANITE with local concentrations of radiolarians and dark greenish gray (5G 4/1), olive black (5Y 2/1) and greenish black (5G 2/1) CLAYSTONE to CLAYEY PORCELLANITE.</p> <p>General Descriptions: The CLAYSTONE and CLAYEY PORCELLANITE exhibits fine lamination and burrows. Pyrite concretions and mottles are present. Dark laminations contain small pyrite lenses or concretions and are present at 23-24 cm. Bioturbation is rare throughout.</p>

Core Photo

Site 1214 Hole A Core 24R Cored 216.6-226.2 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1							↑ ↓		gn GY ::	<p>Major Lithology: The dominant lithologies are light greenish gray (5GY 8/1), greenish gray (5GY 6/1), and yellowish gray (5Y 8/1) PORCELLANITE and brownish gray (5YR 4/1) to brownish black (5YR 8/1) CHERT.</p> <p>General Description: The PORCELLANITE contains abundant burrow structures and some evidence of soft sediment deformation in the piece between 0 and 5 cm and 49-51 cm. The CHERT contains minor inclusions and coatings of the yellowish gray PORCELLANITE.</p>

Core Photo

Site 1214 Hole A Core 25R Cored 226.2-235.9 mbsf										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	DISTURB.	SAMPLE	COLOR	DESCRIPTION
1										<p>Major Lithology: The core is predominantly olive black (5Y 2/1) CHERT WITH RADIOLARIANS.</p> <p>Minor Lithology: There is a minor amount of light greenish gray (5GY 8/1) NANNOFOSSIL CHALK.</p> <p>General Description: The CHERT has burrows filled with CHALK and CHALK and PORCELLANITE patinas around the CHERT. The CHALK is finely laminated and rare pyrite laminae occur throughout it.</p>

