

Site 1065 Hole A Core 1R

Cored 251.0-260.7 mbsf

1065A-1R


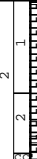

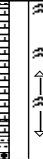
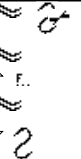



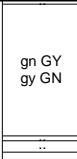
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0.0	1	PH CAR SS CAR XRD CAR SS IW XRD CAR						lt gn GY	<p>NANNOFOSSIL CHALK and NANNOFOSSIL CLAYSTONE</p> <p>AGE: early Miocene</p> <p>Major Lithologies: Light greenish gray (5 GY 8/1) NANNOFOSSIL CHALK forms ~70% of the core, and grayish green (5G 5/1) NANNOFOSSIL CLAYSTONE the remainder.</p>
0.1	2	TSB TSB PH TSB PH TSB SS CAR						gy GN lt gy GY	<p>General Description: From the top of Section 1 to Section 2, 137 cm, the core consist of NANNOFOSSIL CHALK. Within this interval, some parts of the core are thinly bedded to laminated and others are almost structureless (Section 1, 35-46 cm, 54-144 cm; Section 2, 72-80 cm, 103-136 cm), possibly because of intense bioturbation. One of the thin beds consist of slightly greener sediment. Microfaults occur at the top of Section 1.</p>
0.2	3	PH PAL							<p>From Section 1, 137 cm to Section CC, 18 cm, the core consists of approximately 60% NANNOFOSSIL CLAYSTONE and 40% NANNOFOSSIL CHALK, both of which are deformed by numerous slump folds. An upward-darkening interval with numerous Zoophycos occurs in Section 3, 28-47 cm. Scattered throughout the slumped interval are clasts ranging in size from coarse sand to pebble grade (up to 4 cm diameter). They consist of black lithic graywacke, lithic arenite, metamorphosed siltstone, micaschist, and very pale orange (10YR 8/2) limestone, including micrite, peloidal/interclast grainstone, and peloidal packstone/boundstone.</p>



SITE 1065 HOLE A CORE 2R

CORED 260.7-270.3 mbsf


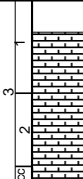


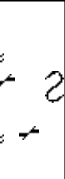


1065A-2R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p><b>NANNOFOSSIL CHALK</b></p> <p>AGE: early Miocene</p> <p>Major Lithologies: Greenish gray (7 GY 7/1) NANNOFOSSIL CHALK forms approximately 90% of the core.</p> <p>Minor Lithologies: Grayish green (2G 5/1) NANNOFOSSIL CLAYSTONE, dark gray (1 G 4/1) CLAYEY NANNOFOSSIL CHALK, and pale olive (9 GY 6/1) NANNOFOSSIL CHALK WITH CLAY</p> <p>General Description: Sections 1 and 2 consist of NANNOFOSSIL CHALK which shows wavy lamination of alternating light greenish gray and grayish green sediment. In Section 1, 20-30 cm, microfaults cut the laminae. Between 126 and 132 cm in Section 1 three upward-darkening layers of ~2 cm thickness occur. Dark gray (1 G 5/1) CLAYEY NANNOFOSSIL CHALK occurs in Section 2, 45-49 cm. Pale olive (9 GY 6/1) NANNOFOSSIL CHALK WITH CLAY occurs in Section 2, 72-81 cm.</p> <p>Section 1, 0-7 cm, and Section 2, 82-108 cm, consist of grayish green NANNOFOSSIL CLAYSTONE, deformed by slump folding.</p>

SITE 1065 HOLE A CORE 3R

CORED 270.3-280.0 mbsf

1065A-3R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<p>PH CAR PAL</p>	<p>lt gn GY pal OL</p>	<p>NANNOFOSSIL CHALK</p> <p>AGE: early Miocene</p> <p>Major Lithology: Light greenish gray (5 GY 6/1) and grayish green (9 GY 6/1) NANNOFOSSIL CHALK</p> <p>General Description: The core consists of NANNOFOSSIL CHALK which shows wavy lamination of alternating light greenish gray and grayish green sediment. In Section 1, 130-136 cm, and Section 2, 63-73 cm, microfaults cut the laminae. Slump folds occur in Section 1, 136-150 cm.</p> <p>Section 1, 0-52 cm, is highly disturbed by coring. Pebbles (0.5-3 cm) similar to those described in Core 1065A-1R are mixed with washed sediment.</p>

SITE 1065 HOLE A CORE 4R

CORED 280.0-289.6 mbsf

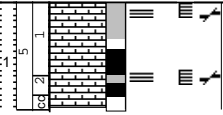
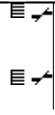
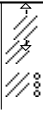
1065A-4R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p>NANNOFOSSIL CHALK and NANNOFOSSIL CHALK WITH CLAY</p> <p>AGE: early Miocene</p> <p>Major Lithology: Light greenish gray (5 GY 6/1) NANNOFOSSIL CHALK forms 75% of the core, and grayish green (9 GY 6/1) NANNOFOSSIL CHALK WITH CLAY forms the remainder.</p> <p>General Description: Large scale slumps and related microfaults occur throughout the core disrupting thinly bedded to laminated NANNOFOSSIL CHALK and darker NANNOFOSSIL CHALK WITH CLAY. In Section 2, 19-72 cm, bioturbated intervals are cut by microfaults. Isolated pebbles ranging in size from &lt;1 mm to 2.5 cm are scattered throughout the slumped interval, but are most common in Section 1. Clasts consisting of black very fine-grained material and very pale orange (10 YR 8/2) limestone are similar to those described in Core 1065A-1R.</p>

**SITE 1065 HOLE A CORE 5R**

**CORED 289.6-299.2 mbsf**

1065A-5R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
5 4 3 2 1	1 2 3 4 5						CAR XRD TSB SS CAR SS CAR PAL	lt gn GY	<p>NANNOFOSSIL CLAYSTONE</p> <p>AGE: early Miocene</p> <p>Major Lithology: The core consists of light greenish gray (9 GY 6/1) NANNOFOSSIL CHALK.</p> <p>General Description: Very thin bedded to laminated intervals in Section 1, 0-32 cm, and Section 2, 0-12 cm, consist of alternating lighter and darker colored sediment exhibiting apparent dips of ~20°. Reversed microfaults occur in these intervals, showing displacements of 1-3 mm.</p> <p>Section 1, 32-120 cm, and Section CC, 1-19 are massive, with faint burrow traces, which suggest that they may be completely homogenized by bioturbation.</p>

SITE 1065 HOLE A CORE 6R

CORED 299.2-308.8 mbsf

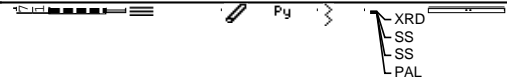
1065A-6R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<p>CAR XRD TSB</p> <p>TSB XRD CAR PH</p> <p>XRD SS PAL</p>	<p>lt gn GY gy GN lt gn GY</p>	<p>NANNOFOSSIL CHALK and NANNOFOSSIL CHALK WITH CLAY</p> <p>AGE: early Miocene</p> <p>Major Lithologies: Light greenish gray (6 GY 7/1) to grayish green (9 GY 6/1) NANNOFOSSIL CHALK forms ~70% of the core, greenish gray to dark greenish gray (2 GY 4/1 - 4 GY 4/1) NANNOFOSSIL CHALK WITH CLAY forms nearly 25% of the core.</p> <p>Minor Lithologies: Dark greenish gray (2 GY 4/1) CLAYEY NANNOFOSSIL CHALK and SILTY CLAYSTONE form ~5% of the core.</p> <p>General Description: Section 1 and Section 2, 0-100 cm, consist of thinly bedded to wavy laminated NANNOFOSSIL CHALK. Microfaults and slump folds are common. Section 2, 0-22 cm, contains upward-lightening intervals.</p> <p>NANNOFOSSIL CHALK WITH CLAY and CLAYEY NANNOFOSSIL CHALK in Section 2, 100-150 cm, and Section 3 show no internal structures. A 2 cm thick SILTY SAND occurs at Section 3, 14-16 cm. A SILTY CLAYSTONE forms the lowermost lithology in Section 3. Section CC contains disturbed NANNOFOSSIL CHALK WITH CLAY and SILTY CLAYSTONE.</p>

**SITE 1065 HOLE A CORE 7R**

**CORED 308.8-318.5 mbsf**


1065A-7R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CLAYSTONE and NANNOFOSSIL CHALK</p> <p>AGE: Tithonian</p> <p>Major Lithologies: Moderate yellowish brown (10 YR 5/5) CLAYSTONE, medium gray (N 5) NANNOFOSSIL CHALK, and grayish red (10 R 4/2) CLAYSTONE</p> <p>General Description: The core consists of three pieces, each of which consists of a distinct lithology. The first piece (Section CC, 0-3 cm) is moderate yellowish brown CLAYSTONE with faint, darker laminations. The second piece (Section CC, 4-8 cm) is moderately bioturbated NANNOFOSSIL CHALK, which in smear slides contains minor pyrite. The third piece (Section CC, 4-6 cm) is red CLAYSTONE; based on its density and color it is likely to contain iron oxides.</p>

SITE 1065 HOLE A CORE 8R

CORED 318.5-328.1 mbsf

1065A-8R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CONGLOMERATE and SANDSTONE</p> <p>AGE: Tithonian</p> <p>Major Lithologies: Mottled medium gray (N5) CONGLOMERATE and SANDSTONE</p> <p>Minor Lithologies: Moderate yellowish brown (10YR 5/5) CLAY and dark greenish gray (8 GY 4/1) CLAY</p> <p>General Description: The core contains two pieces: a CONGLOMERATE and a coarse-grained SANDSTONE. The CONGLOMERATE piece (Section CC, 4-10 cm), consists of both carbonate and siliciclastic rounded granules and pebbles as much as 5 mm in diameter. The SANDSTONE piece, (Section CC, 10-13 cm), appears to have the same clast lithology as the CONGLOMERATE. The long-axes of the SANDSTONE grains are oriented parallel to the bedding, and charcoal fragments are concentrated along some bedding planes. The two CLAY lithologies present in the upper 3 cm of the core are flow-in features caused by drilling disturbance. The yellowish brown CLAY appears to be similar to the CLAYSTONE piece recovered in Core 1065A-7R, whereas the greenish gray CLAY resembles the CLAY recovered in Core 1065A-10R.</p>



**SITE 1065 HOLE A CORE 9R**

**CORED 328.1-337.7 mbsf**

1065A-9R

1065A-10R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<ul style="list-style-type: none"> <li>CAR</li> <li>TSB</li> <li>CAR</li> <li>SS</li> <li>CAR</li> <li>TSB</li> </ul>	med GY	<p>LIMESTONE, CHALK, and CALCAREOUS SILTSTONE</p> <p>AGE: Tithonian</p> <p>Major Lithologies: Mottled medium gray (N5) LIMESTONE, olive gray (5 Y 4/1) CHALK, and medium gray (N5) CALCAREOUS SILTSTONE</p> <p>General Description: Three different lithologies are presents. A single piece of limestone (Section 1, 0-8 cm) contains irregular calcite filled fractures up to 8 mm apart. Three pieces of laminated CHALK are present in the interval from 11-25 cm. Five pieces of laminated, well lithified CALCAREOUS SILTSTONE occur in the interval from 26-64 cm. Laminae in the piece from 55-65 cm dip more steeply than in the other pieces, but this change could be due to coring disturbance. Sand-sized charcoal fragments occur in the CALCAREOUS SILTSTONE between 50 and 57 cm.</p>

**SITE 1065 HOLE A CORE 10R**

**CORED 337.7-347.3 mbsf**


METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<ul style="list-style-type: none"> <li>CAR</li> <li>SS</li> <li>XRD</li> <li>PAL</li> </ul>	dk gn GY	<p>CLAY</p> <p>AGE: Tithonian</p> <p>Major Lithology: Dark greenish gray (8 GY 4/1) CLAY</p> <p>General Description: Plastic CLAY comprises the entire core, and poorly preserved Chondrites occur throughout.</p>

**SITE 1065 HOLE A CORE 11R**

**CORED 347.3-356.8 mbsf**

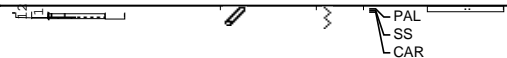
1065A-11R

1065A-12R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>AGE: Tithonian</p> <p>Major Lithology: Dark greenish gray (8 GY 4/1) CLAY</p> <p>Minor Lithologies: Mottled medium gray (N5) SANDSTONE and pale yellowish brown (10 YR 6/2) CLAYSTONE</p> <p>General Description: The majority of the core consists of a structureless greenish gray CLAY similar to that described in Core 1065A-10R. Minor lithologies include a coarse-grained SANDSTONE piece (Section CC, 9-10 cm), similar to that described in Core 1065A-8R, and a pale yellowish brown CLAYSTONE piece, (Section CC, 19-22 cm).</p>

**SITE 1065 HOLE A CORE 12R**

**CORED 356.8-366.4 mbsf**

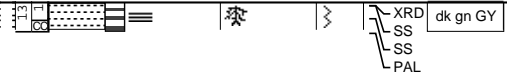
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									 <p>AGE: Tithonian</p> <p>Major Lithology/General Description: Only one piece of light olive gray (5Y 6/1) CALCAREOUS CLAYSTONE is present, showing a bedding surface on which occurs a tubular burrow 2.5 mm wide.</p> <p>Note: Drilled 366.4 - 371.0 mbsf.</p>

**SITE 1065 HOLE A CORE 13R**

**CORED 371.0-376.0 mbsf**

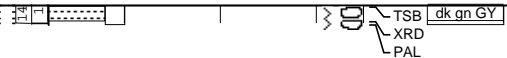
1065A-13R

1065A-14R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>                     XRD                      SS                      SS                      PAL                 </p> <p>dk gn GY — CLAY</p> <p>AGE: Tithonian</p> <p>Major Lithology: The core consists of dark greenish gray (8 GY 4/1) CLAY.</p> <p>General Description: Planar laminations occur in Section 1, 4-7 cm and 22-24 cm, and Section CC, 6-7 cm. Chondrites are present in Section 1, 13-17 cm, and Section CC, 8-15 cm.</p> <p>Note: Drilled 366.4 - 371.0 mbsf.</p>

**SITE 1065 HOLE A CORE 14R**

**CORED 376.0-385.7 mbsf**

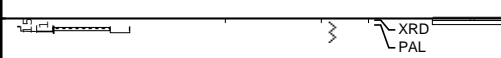
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>                     TSB                      XRD                      PAL                 </p> <p>dk gn GY — CLAY</p> <p>AGE: Middle(?) to Late Jurassic</p> <p>Major Lithology: Most of the core consists of structureless dark greenish gray (3 GY 4/1) CLAY.</p> <p>Minor Lithologies: A piece of dark gray (N3) SILTSTONE occurs in Section CC, 0-3 cm, and a piece of olive gray (5YR 6/1) CLAYEY LIMESTONE in Section CC, 25-27 cm.</p> <p>General Description: The top 10 cm of the core shows slight core disturbance; the rest is biscuitied.</p>

**SITE 1065 HOLE A CORE 15R**

**CORED 385.7-395.3 mbsf**

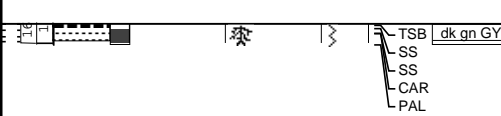
1065A-15R

1065A-16R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CLAY                      AGE: Middle(?) to Late Jurassic                      Major Lithology/General Description:                      The entire core consists of structureless dark greenish gray (8 GY 4/1) CLAY.</p>

**SITE 1065 HOLE A CORE 16R**

**CORED 395.3-404.9 mbsf**

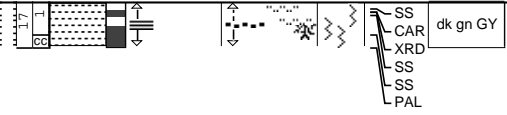
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>AGE: Middle(?) to Late Jurassic                      Major Lithology:                      90% of the core consists of dark greenish gray (3 GY 4/1) CLAY.                      Minor Lithology:                      Pieces of coarse SANDSTONE and CONGLOMERATE in Section CC, 0-5 cm, contain clasts from 0.5 to 10 mm in size that consist of light colored limestone and darker rock types including slate.                      General Description:                      The core is moderately disturbed by drilling. Chondrites is present from 10-30 cm.</p>

**SITE 1065 HOLE A CORE 17R**

**CORED 404.9-424.2 mbsf**


1065A-17R

1065A-18R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CLAY AGE: Middle(?) to Late Jurassic</p> <p>Major Lithology: Dark greenish gray (8 GY 4/1) CLAY</p> <p>General Description: The CLAY is commonly laminated and the laminae are slightly inclined. Calcareous silty laminae occur in Section 1, 7 cm, 10 cm, 30 cm, and 37 cm. Fine dark green to black lamina, which occur throughout the core, contain flakes of black plant debris (charcoal). The core is moderately disturbed by drilling. Chondrites is present in the less disturbed intervals.</p>

**SITE 1065 HOLE A CORE 18R**

**CORED 424.2-443.5 mbsf**

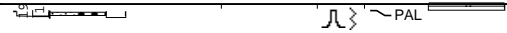
METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CLAY AGE: Middle(?) to Late Jurassic</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1 to 5 G 4/1) CLAY</p> <p>General Description: In Section 1, 0-16 cm, the CLAY is laminated. Laminae are slightly inclined (~20°) and contain flakes of black plant debris. A silty to sandy lamina occurs in Section 1, 8 cm. From Section 1, 16 cm to Section CC, 15 cm, the CLAY is moderately disturbed by drilling. Chondrites is present in the less disturbed intervals from Section 1, 20-23 cm and 29-31 cm.</p>

**SITE 1065 HOLE A CORE 19R**

**CORED 443.5-462.9 mbsf**

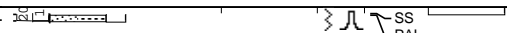
1065A-19R

1065A-20R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>SANDSTONE and CONGLOMERATE                      AGE: Middle(?) to Late Jurassic                      Lithologies/General Description:                      The core consists of pieces of dark greenish gray (5 GY 4/1) coarse SANDSTONE and CONGLOMERATE in a matrix of highly disturbed dark greenish gray (5 GY 4/1) CLAY.</p>

**SITE 1065 HOLE A CORE 20R**

**CORED 462.9-466.5 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>SANDSTONE AND CLAYSTONE                      AGE: Middle(?) to Late Jurassic                      Lithologies/General Description:                      The core consists of one piece of moderate yellowish brown (10 YR 5/2) fine grained SANDSTONE, in the interval from 0-3 cm, and one piece of olive gray (5 Y 4/1) CLAYSTONE, from 6-8 cm, both encased in disturbed dark greenish gray CLAY.</p>

**1065A-21R** One piece of CLAYEY LIMESTONE was recovered.  
 The entire piece was given to paleontology and used as a sample.

1065A-22R

**SITE 1065 HOLE A CORE 22R                      CORED 482.2-501.5 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p>CLAY, BRECCIA, and SILTSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology:            Approximately 80% of the core consists of dark greenish gray (4 GY 4/1) to medium dark gray (N4) CLAY.</p> <p>Minor Lithology:            A piece of siltstone in Section 1, 0-2 cm, contains charcoal fragments. A piece of breccia 7 cm in length and containing green and light brown clasts occurs in Section CC, 15-20 cm.</p> <p>General Description:            The core is moderately disturbed by drilling. Chondrites is present in Section 1, 29-36 cm.</p>

SITE 1065 HOLE A CORE 23R

CORED 501.5-520.8 mbsf

1065A-23R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
23 1 3							CAR XRD TSB PH PAL	dk gn GY mdk GY	<p>CLAYSTONE, DOLOMITIC CLAYSTONE, and SANDSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Approximately 40% of the core consists of dark greenish gray (5GY 4/1) CLAYSTONE and 40% consists of medium-dark gray (N4) DOLOMITIC CLAYSTONE. The remainder consists of coarse-grained mottled gray coarse SANDSTONE.</p> <p>General Description: Section 1, 0-10 cm and 14-39 cm, consist of dark greenish gray CLAYSTONE. Laminae dip ~20°. Darker laminae are composed of abundant black plant debris. Chondrites is common in the CLAYSTONE. More indurated medium dark gray DOLOMITIC CLAYSTONE occurs as a piece in Section 1, 10-14 cm, and in Section CC. The DOLOMITIC CLAYSTONE is moderately laminated (Section CC, 0-10 cm) to non-laminated (Section 1, 10-14 cm; Section CC, 14-24 cm). When present, laminae are slightly dipping and sometimes contain black plant debris. Coarser (silt to sand) laminations are present in Section CC. Chondrites is present in the pieces at the base of Section CC. A SANDSTONE, in sharp contact with the overlying CLAYSTONE, is present at the base of Section 1 (39-60 cm). The clasts range in size from coarse sand to small pebbles, but are mostly granules. They consist of lighter colored limestones and darker slates. SANDSTONE beds show the same dip as the laminae in the overlying CLAYSTONE.</p>

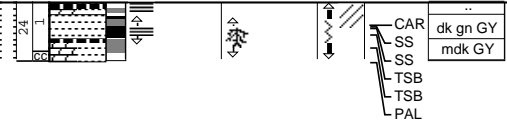


**SITE 1065 HOLE A CORE 24R**

**CORED 520.8-530.4 mbsf**


1065A-24R

1065A-25R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>CLAYSTONE, DOLOMITIC CLAYSTONE, and SANDSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Approximately 50% of the core consists of dark greenish gray (5GY 4/1) CLAYSTONE and 50% consists of medium-dark gray (N4) DOLOMITIC CLAYSTONE. A piece of fine to medium grained mottled gray SANDSTONE occurs in Section 1, 5-7 cm..</p> <p>General Description: DOLOMITIC CLAYSTONE occurs as pieces in Section 1, 0-21 cm and 60-79 cm, and in Section CC. The DOLOMITIC CLAYSTONE is non-laminated to moderately laminated. Dolomite filled veins occur. Chondrites are concentrated in layers. Section 1, 21-60 cm, consists of dark greenish gray CLAYSTONE. Laminae dip ~15°. Chondrites occur throughout the CLAYSTONE. Darker laminae contain flakes of black plant debris; some fining-up layers occur.</p>

**SITE 1065 HOLE A CORE 25R**

**CORED 530.4-540.0 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									 <p>DOLOMITIC CLAYSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology/General Description: The core consists of medium dark gray (N4) DOLOMITIC CLAYSTONE with small flakes of black plant debris.</p>

**SITE 1065 HOLE A CORE 26R**

**CORED 540.0-549.7 mbsf**

1065A-26R

1065A-27R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<ul style="list-style-type: none"> <li>CAR</li> <li>XRD</li> <li>SS</li> <li>PH</li> <li>PAL</li> </ul>	dk gn GY	<p>CLAYSTONE and DOLOMITIC CLAYSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Approximately 70% of the core consists of dark greenish gray (5GY 4/1) CLAYSTONE and 30% consists of medium-dark gray (N4) DOLOMITIC CLAYSTONE.</p> <p>General Description: Medium dark gray DOLOMITIC CLAYSTONE occurs as pieces in Section 1, 0-15 cm and 45-50 cm. The DOLOMITIC CLAYSTONE is wavy laminated and contains dolomite filled veins and fractures. Section 1, 15-45 cm and 50-62 cm, consist of dark greenish gray CLAYSTONE. Chondrites occur, and the laminae contain flakes of black plant debris.</p>

**SITE 1065 HOLE A CORE 27R**

**CORED 549.7-559.3 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<ul style="list-style-type: none"> <li>TSB</li> <li>SS</li> <li>CAR</li> <li>XRD</li> <li>TSB</li> <li>SS</li> <li>SS</li> <li>IW</li> <li>CAR</li> <li>XRD</li> <li>PAL</li> </ul>	dk gn GY dk GY	<p>SILTY CLAYSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Nearly 100% of the core consists of dark greenish gray (5G 4/1) to dark gray (N3) SILTY CLAYSTONE.</p> <p>Minor Lithology: BRECCIA occurs in Section 2.</p> <p>General Description: Thin-bedded to laminated SILTY CLAYSTONE beds dip ~10-13°. Chondrites is common in the core, and undefined borrows are abundant in Section 2, 40-86 cm. The lithified BRECCIA in Section 2, 106-113 cm, consists of dark clasts &lt;5 mm in diameter in a light brownish (dolomitic?) matrix.</p>

**SITE 1065 HOLE A CORE 28R**

**CORED 559.3-568.9 mbsf**

1065A-28R

1065A-29R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p>CLAYSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) CLAYSTONE</p> <p>Minor Lithology: One small SANDSTONE piece in Section 1, 0-2 cm.</p> <p>General Description: CLAYSTONE consists of slightly dipping (10-30°) thin beds and laminations. Chondrites is common in the core. One piece in Section 1, 55-60 cm, contains larger undefined burrows and solution features. Black plant debris is commonly concentrated along laminae. Section CC, 0-4 cm, contains pyrite and wavy laminae. Some intervals in this core may be poorly dolomitized.</p>

**SITE 1065 HOLE A CORE 29R**

**CORED 568.9-578.5 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
									<p>CLAYSTONE</p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) CLAYSTONE</p> <p>General Description: CLAYSTONE consists of slightly dipping (10-20°) thin beds and laminations. Chondrites is common in thinly bedded intervals and is sometimes associated with undefined burrows. Dark gray laminations are enriched in black plant debris. Wavy laminations in Section CC may be products of dewatering. Some intervals in this core may be poorly dolomitized.</p>

**SITE 1065 HOLE A CORE 30R**

**CORED 578.5-588.1 mbsf**

1065A-30R

1065A-31R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							PH SS TSB CAR XRD PAL	dk gn BK dk GY	<p><b>DOLOMITIC SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) DOLOMITIC SILTY CLAYSTONE.</p> <p>General Description: DOLOMITIC SILTY CLAYSTONE consists of slightly dipping (10-20°) thin beds and laminations. Some beds are eroded. Reworking occurs (intraformational clasts), and fractures offset laminae in Section 1, 50-60 cm. Chondrites is common and dark gray laminations are enriched in black plant debris.</p>

**SITE 1065 HOLE A CORE 31R**

**CORED 588.1-597.7 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							TSB XRD CAR PH PAL TSB	dk gn GY dk GY	<p><b>SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) SILTY CLAYSTONE.</p> <p>General Description: SILTY CLAYSTONE consists of slightly dipping (10-20°) thin beds and laminae. Some beds are eroded in Section 1, 25 cm and 97 cm, and Section 2, 28 cm, and in Section CC, 16-19 cm. Chondrites is common and dark gray laminations are enriched in black plant debris. Undefined borrows occur at Section 1, 54 cm, 94 cm, 136 cm, and 146 cm and Section 2, 8 cm and 100 cm.</p>

SITE 1065 HOLE A CORE 32R

CORED 597.7-607.4 mbsf

1065A-32R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							<ul style="list-style-type: none"> <li>PH</li> <li>PH</li> <li>PH</li> <li>CAR</li> <li>XRD</li> <li>PAL</li> <li>TSB</li> </ul>	<ul style="list-style-type: none"> <li>dk gn GY</li> <li>dk GY</li> </ul>	<p><b>DOLOMITIC SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) DOLOMITIC SILTY CLAYSTONE</p> <p>General Description: DOLOMITIC SILTY CLAYSTONE is thinly bedded to laminated. Fine dark gray (N3) laminae enriched in plant debris occur throughout the core, whereas light gray (N7) to yellowish gray (5 Y 8/1) silty laminae, which pinch out and are overlain by mud drapes, occur less frequently. Possible cross stratification occurs in Section 1, 97-99 cm and 142-144 cm. Small normal faults occur in Section 1, 20-22 cm and 30-36 cm and microfolds occur at the base of Section CC. Chondrites is common in the thinly bedded intervals and the upper bed surface of these Chondrites-rich intervals occasionally contains rip-up clasts. In Section 1, 13-22 cm, and Section CC, 1-10 cm, large unidentified burrows, now lenticular due to compaction, are common.</p>

SITE 1065 HOLE A CORE 33R

CORED 607.4-617.1 mbsf

1065A-33R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
0.5 1 1.5 2 2.5 3 3.5	1 2 3 4 5 6 7 8 9 10						PH PH PH CAR XRD PH PH PH SS XRD CAR PAL	dk gn GY dk GY  dk gn GY dk GY	<p><b>DOLOMITIC SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) <b>DOLOMITIC SILTY CLAYSTONE</b></p> <p>Minor Lithology: Dark greenish gray (5 GY 4/1) <b>CALCAREOUS SANDY SILTSTONE</b> and <b>SANDSTONE</b>.</p> <p>General Description: The core consists mostly of thinly bedded to laminated <b>DOLOMITIC SILTY CLAYSTONE</b>. Laminae are planar to wavy in Section 1, 0-67 cm and wavy to convoluted from Section 1, 67 cm to the base of Section CC. Wave ripples are present in Section 1, 0-6 cm and Section 2, 22 cm. Slumping occurs from Section 1, 51 cm to Section 2, 10 cm. Microfaulting occurs throughout the core. Larger scale thrust faults occur in Section 1, 72-76 cm and 95-102 cm. Chondrites is common throughout the core, and larger unidentified burrows are present as well. Irregular bedding contact in Section 1, 64-66 cm, may be an upside down burrowed contact, which would indicate that this interval was overturned by slumping. Section 2, 59-79 cm, contains a <b>CALCAREOUS SANDY SILTSTONE</b>, which is overlain by a <b>CALCAREOUS SANDSTONE</b> piece (Section 2, 57-59 cm).</p>

**SITE 1065 HOLE A CORE 34R**

**CORED 617.1-626.7 mbsf**

1065A-34R

1065A-35R

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							SS TSB CAR XRD PAL	dk gn GY dk GY	<p><b>DOLOMITIC SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) DOLOMITIC SILTY CLAYSTONE.</p> <p>General Description: DOLOMITIC SILTY CLAYSTONE consists of slightly dipping (10-20°) thin beds and laminae. Chondrites is common, and dark gray laminae are enriched in black plant debris. Undefined burrows occur at Section 1, 50 cm and 84 cm. Small scale cross stratification occurs in Section 1, 56-57 cm. Some sandy laminae occur in Section 1, including one thin (0.6 cm) layer at 69-70 cm.</p>

**SITE 1065 HOLE A CORE 35R**

**CORED 626.7-631.4 mbsf**

METERS	CORE AND SECTION	LITHOLOGY	BIOTURBATION INTENSITY	PHYSICAL STRUCTURES	ACCESSORIES	CORE DISTURBANCE	SAMPLES	COLOR	REMARKS
							XRD CAR PAL	dk gn GY	<p><b>SILTY CLAYSTONE</b></p> <p>AGE: not known (barren)</p> <p>Major Lithology: Dark greenish gray (5 GY 4/1) to dark gray (N3) SILTY CLAYSTONE.</p> <p>General Description: SILTY CLAYSTONE consists of thin beds and laminae. Chondrites is common.</p>