

SITE 1036 HOLE A CORE 2H 104% recovery CORED 9.50 - 19.00 mbsf 1036A-2H

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
9.50	1									<p>SILTY CLAY</p> <p>Major Lithology: Gray (5Y 5/1) to dark gray (N4) SILTY CLAY with anhydrite and pyrite disseminations and nodules. Several 1-3 cm white dolomite nodules occur in Interval 169-1036A-2H-2, 57-66 cm.</p>
10.00										
10.50	2									
11.00										
11.50										
12.00										
12.50										
13.00	3									
13.50										
14.00										
14.50										
15.00	4									
15.50										
16.00										
16.50	5									
17.00										
17.50										
18.00	6									
18.50										
19.00	7									

METERS	CORE AND SECTION	GRAIN SIZE Clay Silt fine medium fine coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO- STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
19.00										<p>SILTY CLAY</p> <p>Major lithologies: Gray (N 5) homogeneous SILTY CLAY with abundant disseminated anhydrite and anhydrite nodules. Anhydrite occurs as clasts from 0.5 to 3 cm in diameter and as individual crystals up to 1 cm long. It comprises up to 7% of the core. Pyrite is present as disseminated crystals, fine-grained patches, and nodules from 3H-2, 97 cm downward, but generally makes up less than 2% of the core.</p>
20.00							SS			
21.00							PP			
22.00							SS			
23.00							W			
24.00							PP			
25.00							AA			
26.00							PP			
27.00							XRD			
28.00							W			
29.00							XRD			
30.00							W			
31.00							PP			
32.00							PP			
33.00							PP			
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93.00							PP			
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96.00							PP			
97.00							PP			
98.00							PP			
99.00							PP			
100.00							PP			


SITE 1036 HOLE A CORE 4H 109% recovery CORED 28.50 - 33.00 mbsf 1036A-4H

MEETERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
29	CC	very fine								<p>SILTY CLAY and SILT</p> <p>Major Lithology: Gray (N5) SILTY CLAY with minor 1-2 mm wide anhydrite veins and disseminated pyrite. The whole sequence is strongly disturbed by drilling.</p> <p>— Void space, complex mixture of core liner and sediment.</p> <p>Major Lithology: Gray (N4), moderately indurated SILT with a few mm-thick veins of anhydrite and weak pyrite disseminations (2-5%).</p>
30	1	fine			Subunit IC		PP			
31	2	medium					IW			
32	3	very coarse			Subunit IIC		PP CNS			
33	4	granule					PP			
							PP IW PAL			


SITE 1036 HOLE A CORE 5X 7% recovery CORED 33.00 - 37.50 mbsf

1036A-5X

1036A-6X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
30 29.5 29 28.5 28 27.5 27 26.5 26 25.5 25 24.5 24 23.5 23 22.5 22 21.5 21 20.5 20 19.5 19 18.5 18 17.5 17 16.5 16 15.5 15 14.5 14 13.5 13 12.5 12 11.5 11 10.5 10 9.5 9 8.5 8 7.5 7 6.5 6 5.5 5 4.5 4 3.5 3 2.5 2 1.5 1 0.5 0	CC	very fine fine medium very coarse granule		v6	Subunit IIC	X	CNS XR PP PAL			SILTSTONE Major Lithology: Dark gray (N4), intensely clay-altered SILTSTONE rubble with a few crystals of anhydrite.

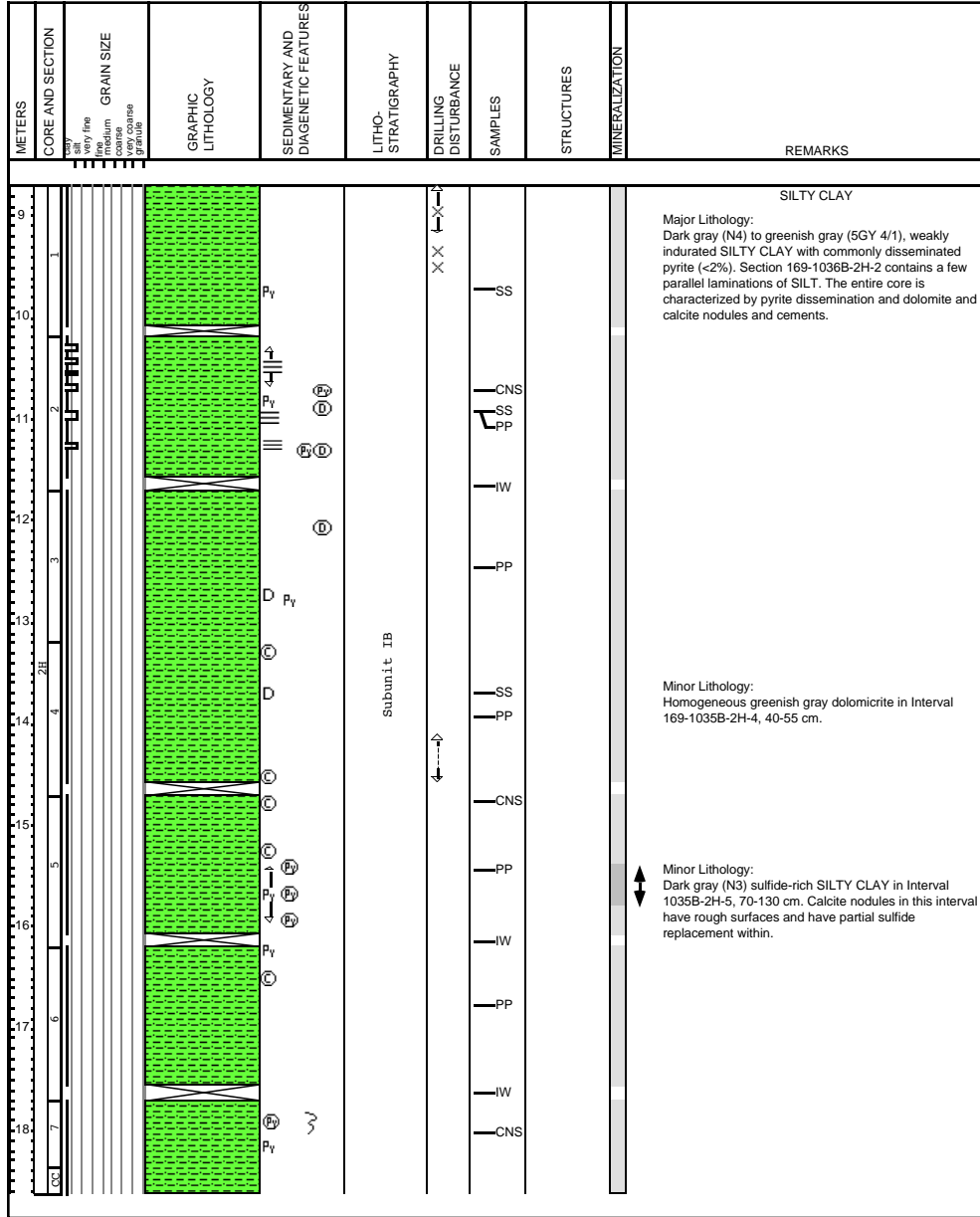
SITE 1036 HOLE A CORE 6X 20% recovery CORED 37.50 - 38.50 mbsf

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
38 37.5 37 36.5 36 35.5 35 34.5 34 33.5 33 32.5 32 31.5 31 30.5 30 29.5 29 28.5 28 27.5 27 26.5 26 25.5 25 24.5 24 23.5 23 22.5 22 21.5 21 20.5 20 19.5 19 18.5 18 17.5 17 16.5 16 15.5 15 14.5 14 13.5 13 12.5 12 11.5 11 10.5 10 9.5 9 8.5 8 7.5 7 6.5 6 5.5 5 4.5 4 3.5 3 2.5 2 1.5 1 0.5 0	CC	very fine fine medium very coarse granule		v6	Subunit IIC	X	CNS XR PP PAL			SILTSTONE AND SILTY CLAYSTONE Major lithology: Gray (N6) to dark gray (N4), clay-altered SILTSTONE and SILTY CLAYSTONE.

SITE 1036 HOLE B CORE 1H 99% recovery CORED 0.0 - 8.7 mbsf

1036B-1H

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
0.0	1	very fine medium coarse very coarse			Subunit IA					<p>SILTY CLAY</p> <p>Major Lithologies: Dominantly weakly indurated gray (5Y 5/1) to dark greenish gray (5GY 4/1) calcareous SILTY CLAY. The upper 150 cm is nonindurated and displays a variety of colors (olive gray, 5Y 4/2; olive brown, 2.5Y 4/1; dark reddish brown, 5YR 3/4) that are likely associated with oxidation. Gas voids are present in Section 169-1036B-1H-1, 0.5 to 2 cm and are common between 89 and 125 cm. Diatoms are also present in Section 169-1035B-1H-1. Rare SILT interbeds fine upward and display parallel lamination. Mineralized (carbonate) burrows are common as are small pockets of pyrite and foraminifera-rich sand. A Zoophycus-burrowed, reddish gray (5R 5/1) SILTY CLAY bed is present in Section 169-1035B-1H-5, 7 to 40 cm. The Zoophycus bed has a relatively high magnetic susceptibility.</p>
1	2									
2	3									
3	4									
4	5									
5	6									
6	CC				Subunit IB					



SITE 1036 HOLE B CORE 3H 101% recovery CORED 18.2 - 27.7 mbsf 1036B-3H

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
19.0	1	fine			Subunit IB					<p>SILTY CLAY</p> <p>Major lithology: Gray (5Y 5/1) to greenish gray (5GY 5/1) SILTY CLAY interbedded with a few silty layers. The entire core shows disseminations of anhydrite and pyrite (<1%). Section 169-1035B-3H-5 and the upper 30 cm of Section 169-1035B-3H-1 are comprised of carbonate and dolomite nodules/concretions.</p>
20.0	2	medium			Subunit IC	PP	CNS	IW	PP	
21.0	3	medium			Subunit IC	PP				
22.0	4	medium			Subunit IC	PP				
23.0	5	medium			Subunit IC	IW	CNS	PP		
24.0	6	medium			Subunit IC	PP				
25.0	7	medium			Subunit IC	PP	SS	IW		

SITE 1036 HOLE B CORE 4X 92.7% recovery CORED 27.7 - 37.3 mbsf 1036B-4X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
28	4X CC	very fine silt		C B Py	Submit IIC	~	PP CNS			SILTY CLAY Major lithologies: Gray (5Y 5/1) SILTY CLAY with minor layers/lenses of SILT and FINE SAND layers. The core contains disseminated pyrite and anhydrite throughout.
29		fine silt								
30		medium silt								
31		very coarse silt								
32		very coarse silt								
33		very coarse silt								
34	4X CC	very coarse silt		D A Py	Submit IIC	~	PP CNS			
35		very coarse silt								
36	4X CC	very coarse silt		F	Submit IIC	~	PP CNS			
		very coarse silt								

SITE 1036 HOLE B CORE 5X 94.7% recovery CORED 37.3 - 45.2 mbsf 1036B-5X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
38.0 - 38.5	1	very fine to fine	[Green pattern]							<p>SILTY CLAY and CLAYEY SILT</p> <p>Major lithologies: Nonindurated, homogeneous, gray (N6) SILTY CLAY with very fine disseminated pyrite (<1%) throughout.</p>
38.5 - 39.5	1	very fine to fine	[Green pattern]							
39.5 - 40.5	2	very fine to fine	[Green pattern]							<p>Major lithologies: Gray (N6), slightly indurated CLAYEY SILT to SILT with fine-grained disseminated pyrite and <1 to 4 cm diameter patches of pyrite (60%) and sediment (40%). Parallel laminations and rare cross laminations are also present. Anhydrite is absent. SILT interval at 169-1036A-5X-CC, 22-35 cm contains 1-2% very fine-grained pyrite as disseminations along select laminae and several sub-cm pockets of very fine-grained pyrite in higher concentrations (70%).</p>
40.5 - 41.5	2	very fine to fine	[Green pattern]							
41.5 - 42.5	3	very fine to fine	[Orange pattern]		Subunit IIC					
42.5 - 43.5	4	very fine to fine	[Orange pattern]							
43.5 - 44.5	5	very fine to fine	[Orange pattern]							
44.5 - 45.2	CC	very coarse to granular	[Orange pattern]							

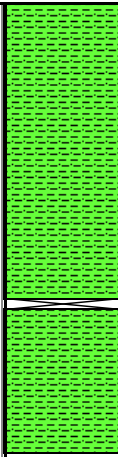

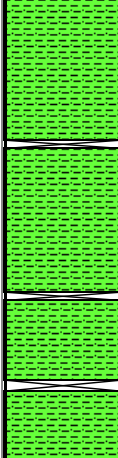






SITE 1036 HOLE B CORE 6X 29.1% recovery CORED 45.2 - 52.3 mbsf 1036B-6X

METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
4.7 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.0	OC 1 OC 2 OC 3 OC 4 OC 5 OC 6 OC 7 OC 8 OC 9 OC 10 OC 11 OC 12 OC 13 OC 14 OC 15 OC 16 OC 17 OC 18 OC 19 OC 20 OC 21 OC 22 OC 23 OC 24 OC 25 OC 26 OC 27 OC 28 OC 29 OC 30 OC 31 OC 32 OC 33 OC 34 OC 35 OC 36 OC 37 OC 38 OC 39 OC 40 OC 41 OC 42 OC 43 OC 44 OC 45 OC 46 OC 47 OC 48 OC 49 OC 50 OC 51 OC 52 OC 53 OC 54 OC 55 OC 56 OC 57 OC 58 OC 59 OC 60 OC 61 OC 62 OC 63 OC 64 OC 65 OC 66 OC 67 OC 68 OC 69 OC 70 OC 71 OC 72 OC 73 OC 74 OC 75 OC 76 OC 77 OC 78 OC 79 OC 80 OC 81 OC 82 OC 83 OC 84 OC 85 OC 86 OC 87 OC 88 OC 89 OC 90 OC 91 OC 92 OC 93 OC 94 OC 95 OC 96 OC 97 OC 98 OC 99 OC 100	very fine fine medium coarse very coarse granule		A P _v P _r P _r P _r	Submit IIC	PP IW CNS PAL			SILTY CLAYSTONE Major lithologies: Well indurated, gray (N 6) SILTY CLAYSTONE with rare dolomite and calcite nodules, trace disseminated pyrite, and local pyrite/sediment patches. Thin intervals of SILT and CLAYEY SILT are present in Sections 169-1036B-1X-1, 13-16 cm and 1X-2, 70-75 cm.	

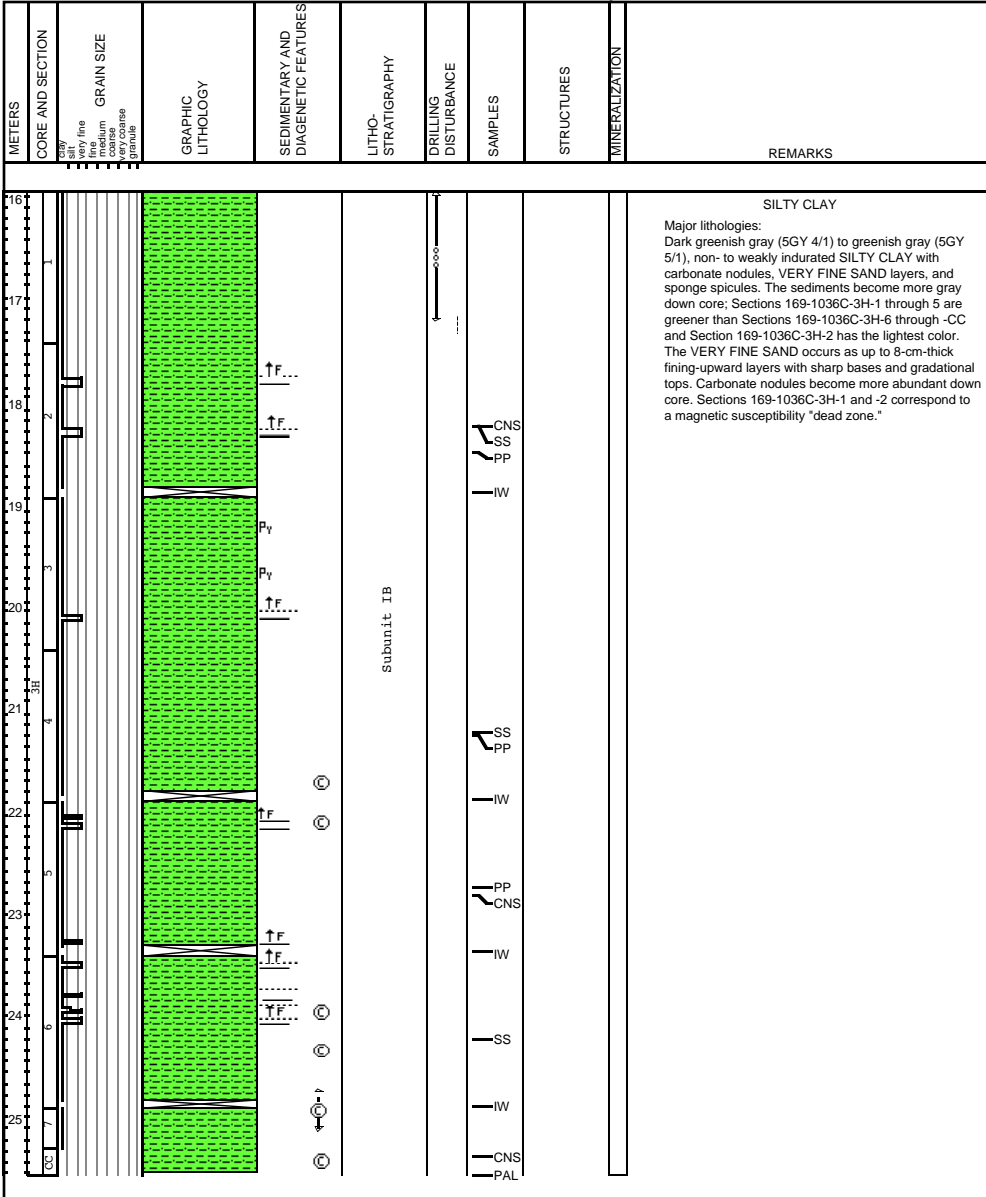
SITE 1036 HOLE C CORE 1H 99.2% recovery CORED 0.0 - 6.4 mbsf 1036C-1H

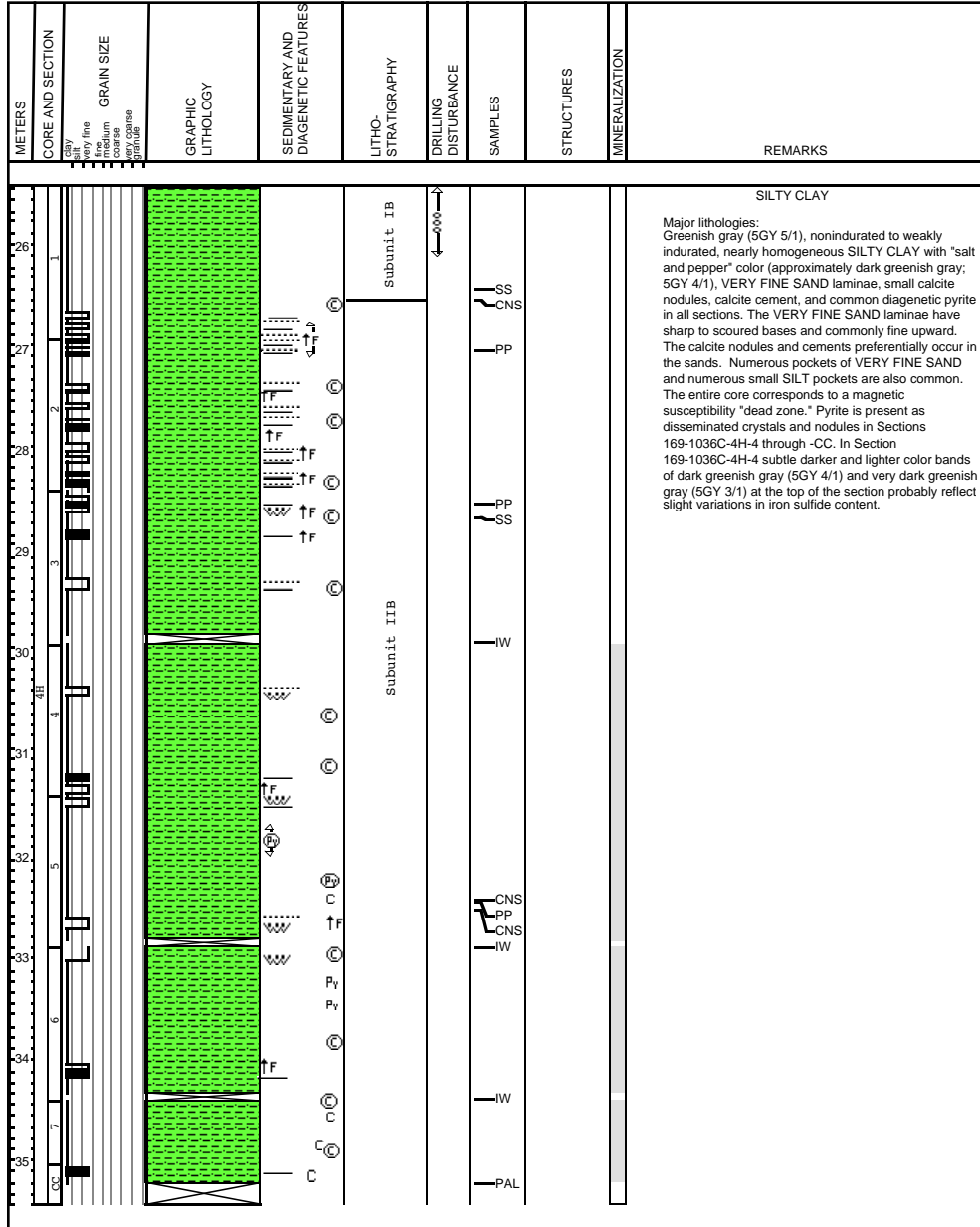
METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse granular	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
					<p>subunit IA</p>		<p>PAL PP PP IW PP PP IW PP PAL</p>		<p>SILTY CLAY</p> <p>Major lithologies: Homogeneous, greenish gray (5GY 5/1) SILTY CLAY capped by a thin layer of dark yellowish brown (5GY 3/6) hemipelagic SILTY CLAY. Rare, isolated patches of VERY FINE SAND and thin (<5 mm) laminae of SILT are present in Sections 169-1036C-1H-2, -3, and -4. In Sections 1036C-1H-2, -3, and -4 the SILTY CLAY occurs in alternating color bands, with diffuse boundaries, of grayish brown (2.5Y 5/2) and greenish gray (5GY 5/1). Pyrite and calcite concretions are present in Section 169-1036C-1H-3, 135 cm. Foraminifers are common in Sections 169-1035C-1H-2 and 3.</p>	

SITE 1036 HOLE C CORE 2H 97.9% recovery CORED 6.4 - 15.9 mbsf 1036C-2H

METERS	CORE AND SECTION	GRAIN SIZE very fine fine medium coarse very coarse granule	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
7.0				Py 	Subunit IA	000	PP SS PP CNS IW PP CNS IW PP XRF CNS IW IW CNS PAL		SILTY CLAY Major lithologies: Mottled/variegated, greenish gray (5GY 5/1 to 5G 5/1), hemipelagic SILTY CLAY with rare, small white patches of spiculite (foraminifers and sponge spicules) and rare pyrite/carbonate filled burrows. SILT and SILTY SAND are present in Sections 169-1036C-2H-4 and -5 as thin (<4 cm) layers that are possible the bases of mud turbidites. Soft sediment deformation is present in the SILT layers of Section 169-1036C-2H-4. Carbonate nodules, many partially replaced by pyrite, are common below Section 169-1036C-2H-4, 80 cm. A large, distinctive nodule of calcite with anastomosing veins filled with calcite, including brown calcite euhedra in voids, is present at Interval 169-1036C-2H-7, 4-10 cm.	
6.0										
5.0										
4.0										
3.0										
2.0										
1.0										
0.0				Py     F  	Subunit IB					
15.9										
15.0										
14.0										
13.0										
12.0										
11.0										
10.0										
9.0										
8.0										
7.0										
6.4										

SITE 1036 HOLE C CORE 3H 101% recovery CORED 15.9 - 25.4 mbsf 1036C-3H





SITE 1036 HOLE C CORE 5X 73.1% recovery CORED 34.9 - 44.6 mbsf 1036C-5X

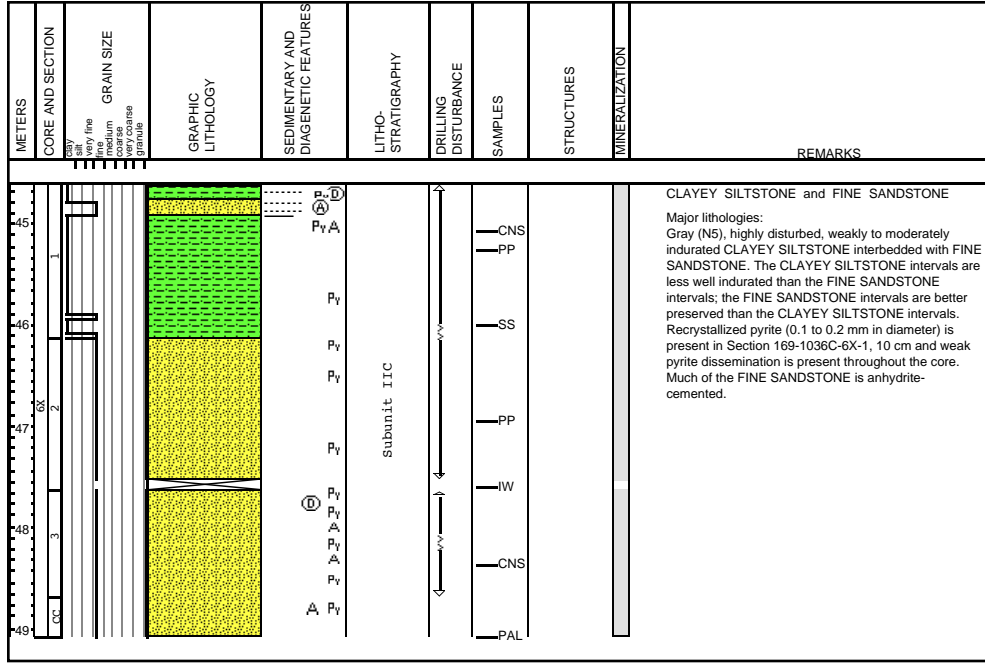
METERS	CORE AND SECTION	GRAIN SIZE	GRAPHIC LITHOLOGY	SEDIMENTARY AND DIAGENETIC FEATURES	LITHO-STRATIGRAPHY	DRILLING DISTURBANCE	SAMPLES	STRUCTURES	MINERALIZATION	REMARKS
35		very fine								<p>SILTY CLAY and VERY FINE SANDSTONE</p> <p>Major lithologies: Gray (N5), weakly indurated SILTY CLAY interbedded with 5 to 25 cm thick layers of moderately indurated VERY FINE SANDSTONE. Carbonate nodules are present locally and the VERY FINE SANDSTONE is selectively cemented with calcite and present as hard drilling biscuits within the SILTY CLAY matrix. Trace amounts of recrystallized pyrite are present throughout. The sandstone layers have sharp to scoured basal contacts, parallel laminations, cross laminations, and soft sediment deformation. A Zoophycus trace is present at the top of a cross-laminated VERY FINE SANDSTONE in Section 169-1036C-5X-1, 20 cm.</p> <p>Most of the calcite cement disappears below the VERY FINE SANDSTONE layer in Section 169-1036C-5X-4, 119 cm.</p> <p>Anhydrite appears for the first time in this core at Section 169-1036C-5X-CC, 30 cm. It occurs as white crystals at the base of a VERY FINE SANDSTONE interval.</p>
36		medium								
37		very coarse								
38		grains								
39										
40										
41										
42										

SITE 1036 HOLE C CORE 6X

46% recovery

CORED 44.6 - 54.2 mbsf

1036C-6X



169-858G-17W-1

Pieces: - All

ROCK TYPE: MASSIVE SULFIDE and ANHYDRITE

These samples were scraped from the inside of the CORK housing recovered from Hole 858G. They represent a hydrothermal chimney deposit and were curated according to distance in cm from the top of the CORK housing. Overlapping intervals are from different areas within the inner circumference of the CORK housing.

0-10 cm: Sulfide rubble consisting of surface-oxidized pieces of pyrrhotite and pyrite. Pyrite is euhedral and medium grained. Pyrrhotite forms an open network of hexagonal platelets that are encrusted and partially replaced by pyrite.

20 cm: Mixture of white anhydrite and dark gray sulfides. Anhydrite is euhedral and commonly coarse grained.

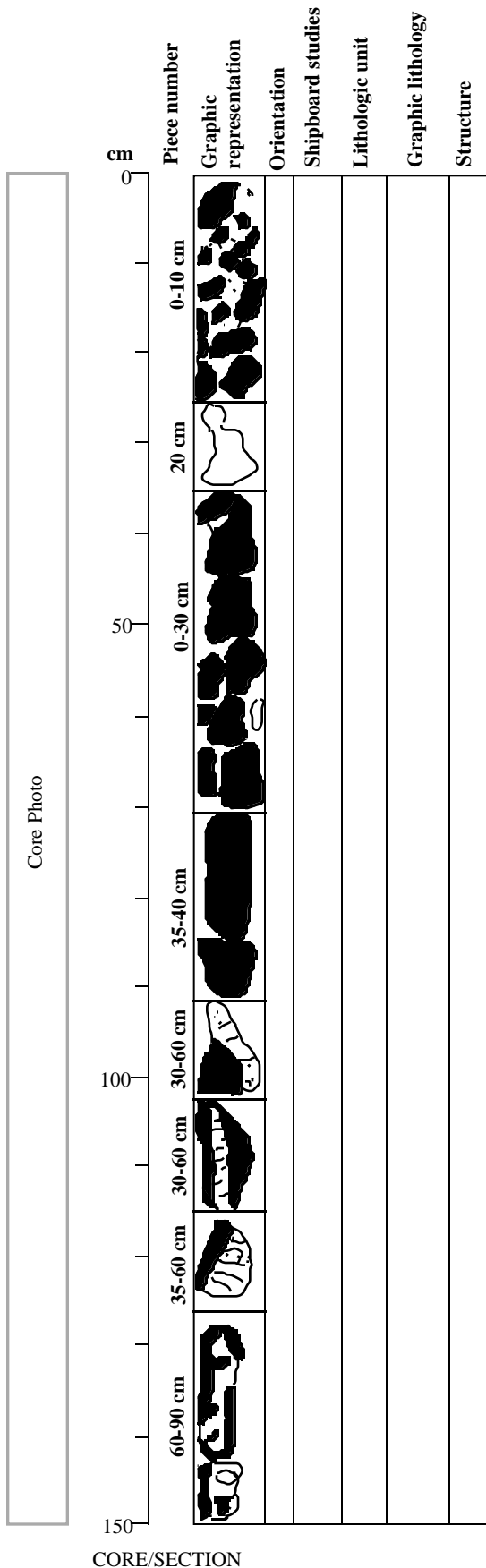
0-30 cm: Vuggy pale gray anhydrite rimmed by pyrrhotite and pyrite. Pyrrhotite forms hexagonal crystals in an open, interlocking network, variably rimmed and replaced by pyrite and minor green smectite.

35-40 cm: Growth-zoned massive black pyrrhotite (oxidized at the surface) grades inward to crystalline pyrite. Minor anhydrite is present, mostly euhedral.

30-60 cm: Coarse-grained, white, crystalline anhydrite, open-textured, and filled by pyrrhotite. Anhydrite is also vuggy, with pyrite and pyrrhotite in vugs. Green Mg-smectite is growing in the open spaces between anhydrite crystals.

35-60 cm: Open network of bladed, euhedral, white anhydrite crystals, vuggy in places, and variably filled and intergrown with pyrrhotite. Pyrrhotite is partly altered to pyrite. Green smectite fills open spaces in the anhydrite crystal framework.

60-90 cm: Same as above except more abundant Mg-smectite.



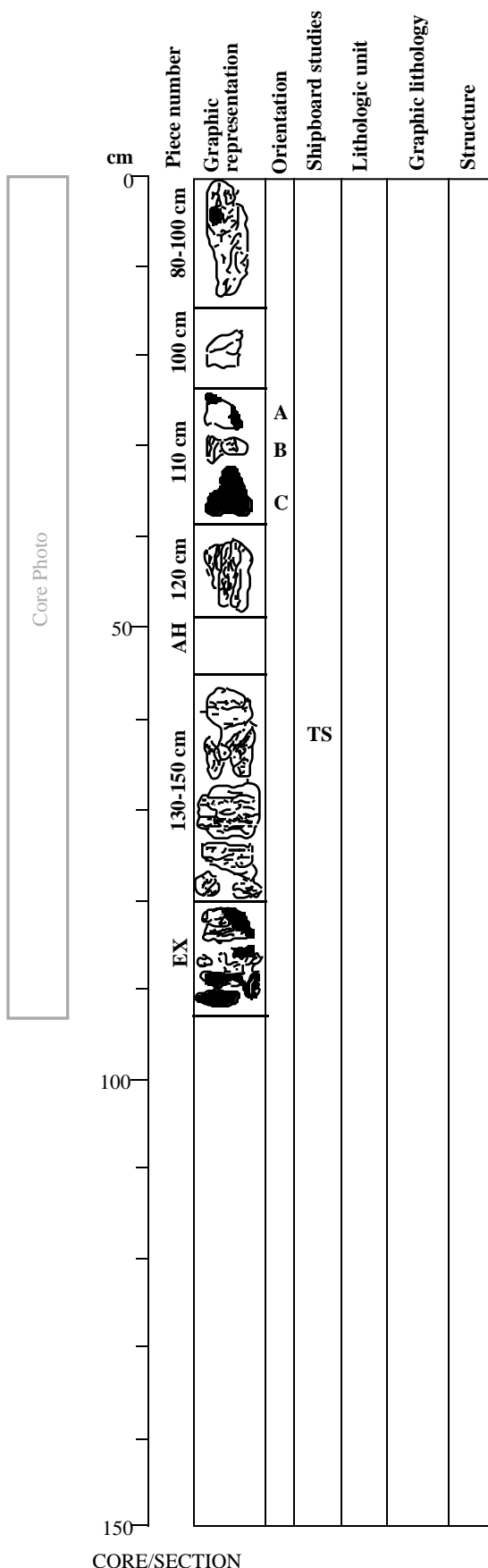
169-858G-17W-2

Pieces - All

ROCK TYPE: MASSIVE SULFIDE and ANHYDRITE

These samples were scraped from the inside of the CORK housing recovered from Hole 858G. They represent a hydrothermal chimney deposit and were curated according to distance in cm from the top of the CORK housing. Overlapping intervals are from different areas within the inner circumference of the CORK housing.

- 80-100 cm: Massive anhydrite with minor (20% to 30%) pyrrhotite.
- 100 cm: Massive white to light gray anhydrite encrusted with clots of pyrrhotite.
- 110 cm: 3 pieces: Piece A is massive anhydrite, Piece B is gray anhydrite with sulfides, Piece C is massive pyrrhotite.
- 120 cm: Massive anhydrite, white anhydrite vein on one side, light to medium gray with disseminated pyrrhotite on the other.
- AH: This piece appears only in the archive half. It is a piece of hose from the CORK that has been filled with sulfides.
- 130-150 cm: Banded, gray, massive anhydrite. The middle piece has a blue coating imparted by the hydraulic hose on the CORK.
- EX: These are pieces of gray anhydrite and multiple small pieces of pyrrhotite.



CORE/SECTION

169-858G-18W-1

Pieces - All

ROCK TYPE: MASSIVE SULFIDE and ANHYDRITE

These samples were scraped from the inside of the CORK housing recovered from Hole 858G. They represent a hydrothermal chimney deposit and were curated according to distance in cm from the top of the CORK housing. Overlapping intervals are from different areas within the inner circumference of the CORK housing.

0-30 cm: These samples represent the material recovered from closest to the original CORK interior wall. The pieces were chipped off and may contain some of the original, albeit altered, metal wall of the CORK. Massive sulfide and anhydrite mixture consisting of an open, interlocking network of hexagonal pyrrhotite, variably overgrown or replaced by pyrite. Anhydrite has a bladed, open texture.

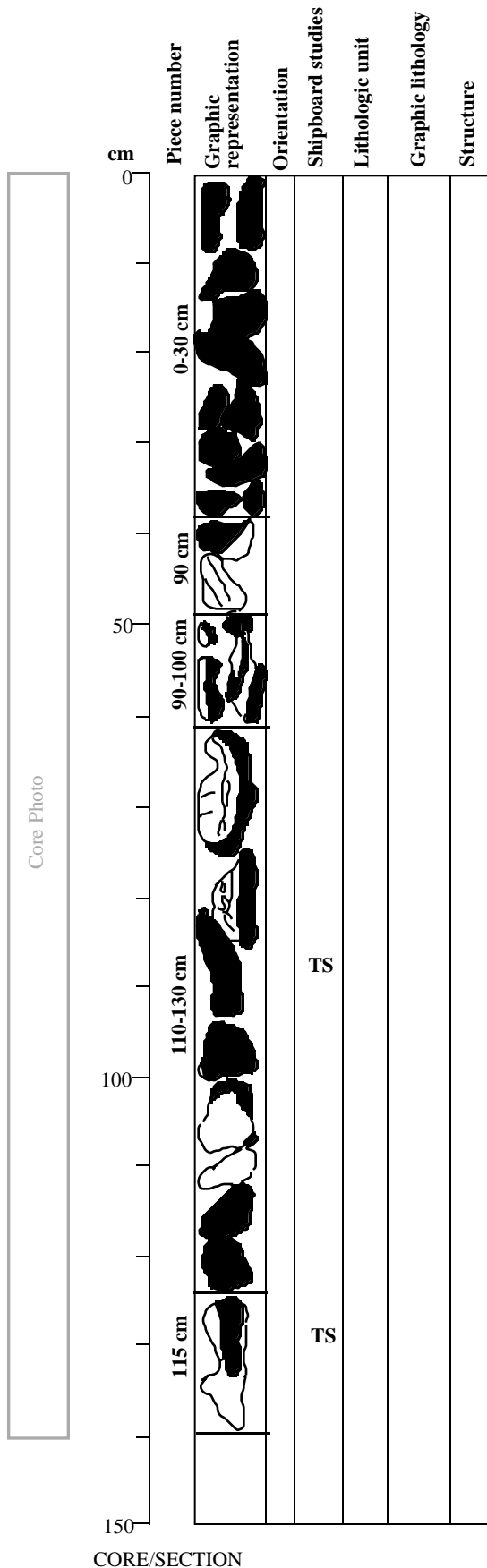
90 cm: Pale gray, zoned anhydrite composed of interlocking blades replaced by black to dark gray pyrrhotite ± isocubanite ± chalcopyrite in an open, interlocking network.

90-100 cm: Same as above.

110-130 cm: Mixture of massive sulfide and pale gray anhydrite.

Massive sulfide is bronzy, open (vuggy) and composed of a mixture of pyrrhotite and pyrite (probably with sphalerite and Cu-Fe-S minerals). Anhydrite consists of an open network of blades with interstitial pyrrhotite and pyrite.

115 cm: Black/bronze massive sulfide, vuggy and composed of an open, interlocking network of pyrrhotite and pyrite. Pale gray anhydrite has a bladed texture.



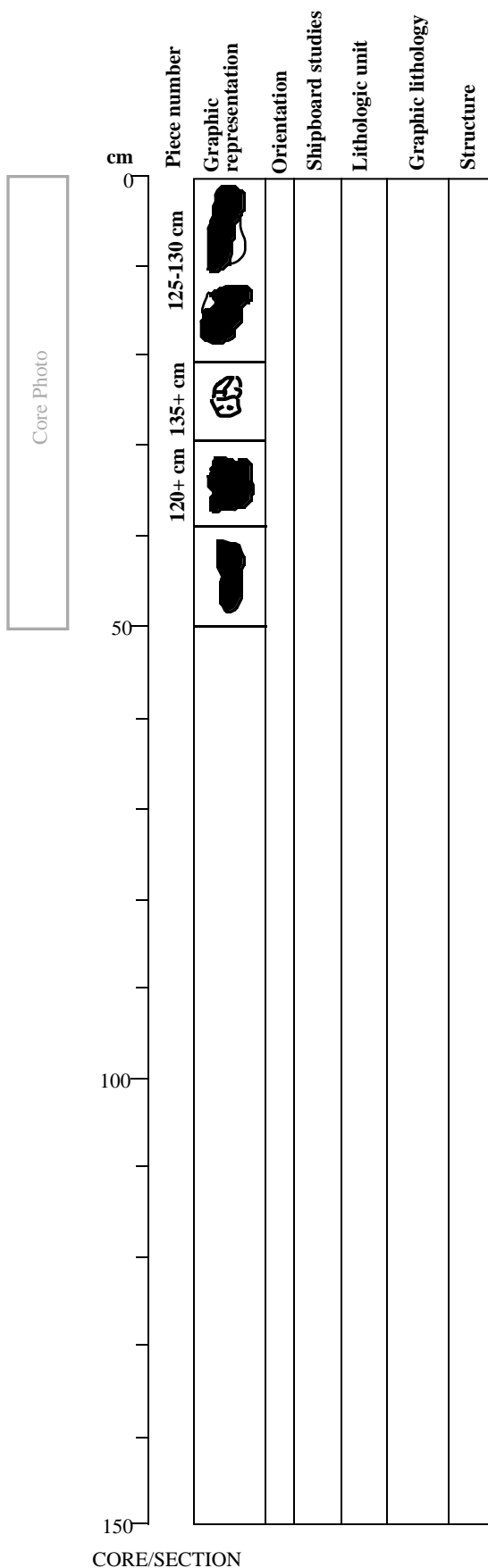
169-858G-18W-2

Pieces - All

ROCK TYPE: MASSIVE SULFIDE and ANHYDRITE

These samples were scraped from the inside of the CORK housing recovered from Hole 858G. They represent a hydrothermal chimney deposit and were curated according to distance in cm from the top of the CORK housing. Overlapping intervals are from different areas within the inner circumference of the CORK housing.

- 125-130 cm: Pyrrhotite massive sulfide with clots of anhydrite.
Disseminated smectite on one corner.
- 135+ cm: Mottled 50:50 anhydrite:pyrrhotite rock.
- 120+ cm: Banded 50:50 anhydrite:pyrrhotite rock.



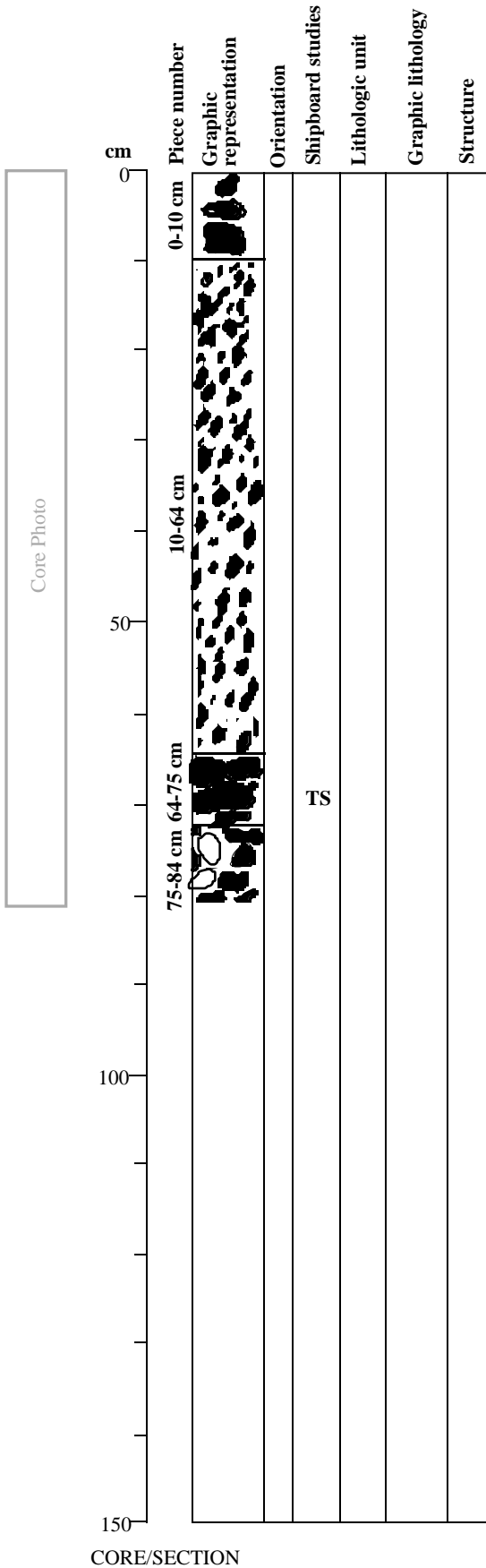
CORE/SECTION

169-858G-19W-1

Pieces - All

ROCK TYPE: MASSIVE SULFIDE and ANHYDRITE

0-10 cm: Massive sulfide rubble from wash barrel.
 10-64 cm: Rubble and sand of massive, bronze sulfide and pale gray anhydrite.
 64-75 cm: Massive, fine-grained sulfide.
 75-84 cm: Massive sulfide and white to pale gray anhydrite with sulfide minerals.



CORE/SECTION