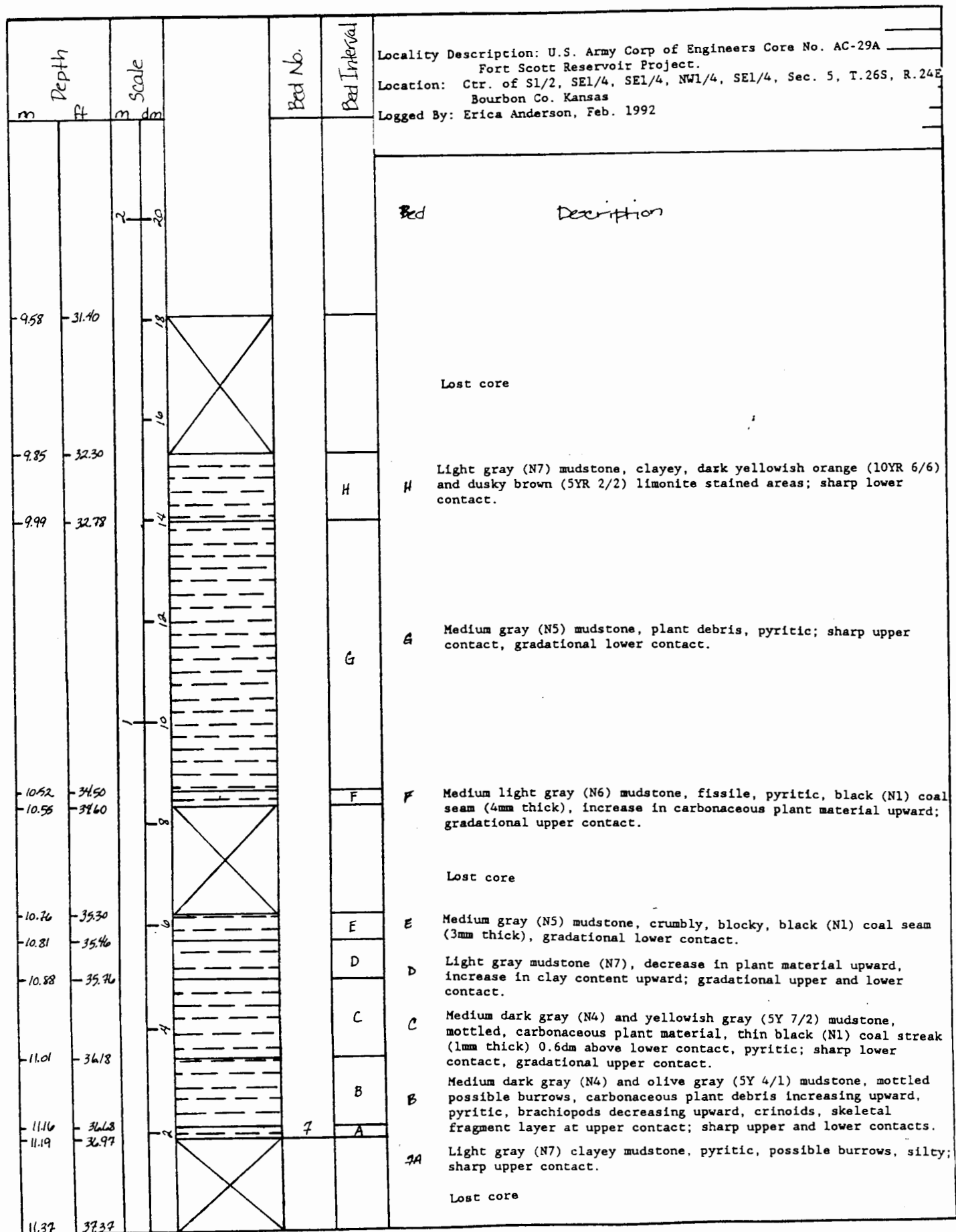


Depth		Scale		Bed No.	Bed Interval	Locality Description: U.S. Army Corp of Engineers Core No. AC-29A Fort Scott Reservoir Project. Location: Ctr. of S1/2, SE1/4, SE1/4, NW1/4, SE1/4, Sec. 5, T.26S, R.24E. Bourbon Co. Kansas Logged By: Erica Anderson, Feb. 1992
m	ft	m	dm			
		20				
		18				
		16				
		14				
		12				
4.44	14.60	12			K	K Dark yellowish brown (10YR 4/2) clay, possible soil horizon.
4.44	14.70	12				
		10			J	J Very light gray (N8) carbonate clasts with dark yellowish brown (10YR 4/2) clay, possible soil horizon; sharp upper contact.
		10				
4.85	15.90	8			I	I Yellowish gray (5Y 7/2) claystone with increase in carbonate clasts upward.
		8				
5.03	16.50	6				Lost core
5.07	16.70	6				
		6				
		4			H	8H Yellowish gray (5Y 7/2) calcareous clay/claystone with dark yellowish orange (10YR 6/6) and grayish brown (5YR 3/2) staining, possible modern day weathering.
		4				
5.46	17.90	2				Lost core
		2				
5.73	18.80					

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m	ft	m	dm			
5.73	18.80	20				Bed Description
5.94	19.50	18		G	G	Yellowish gray (5Y 7/2) calcareous clay to grayish orange (10YR 7/4) with dark yellowish orange (10YR 6/6) and moderate brown (5YR 4/4) staining, possible modern day weathering.
6.21	20.40	16				Lost core
6.79	22.30	14		F	F	Yellowish gray (5Y 7/2) calcareous claystone with dark yellowish orange (10YR 6/6) staining, carbonate clasts, crumbly upward.
7.15	23.50	10				Lost core
7.33	24.05	4		E	E	Yellowish gray (5Y 7/2) calcareous claystone with medium gray (N5) layers.
7.70	25.50	2				Lost core

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m	ft	m	ft			Bed	Description
7.76	25.50	18	20				
		16			D	D	Yellowish gray (5Y 7/2) to light gray (N7) calcareous claystone, blocky, grayish brown (5Y 3/2) and dark yellowish orange (10YR 6/6) staining.
8.12	26.64	14					Lost core
8.27	27.13	12					
		10			C	C	Yellowish gray (5 Y 7/2) calcareous claystone, blocky, carbonate clasts, grayish brown (5YR 3/2) and dark yellowish orange (10YR 6/6) staining; possible exposure surface 3.0dm below upper contact.
8.65	28.40	8					
		6			B	B	Medium light gray (N6) calcareous mudstone, blocky, grayish brown (5YR 3/2) and dark yellowish orange (10 YR 6/6) staining; sharp upper contact.
8.98	29.16	4					Lost core
		2					
9.38	30.80	0		8	A	8A	Light olive gray (5Y 6/1) calcareous mudstone with dark gray (N3) shale and black (N1) coal partings, brachiopods, skeletal fragments; dark yellowish orange (10YR 6/6) staining (possible exposure surface); gradational lower contact.
9.46	31.00						
9.58	31.40				I	7I	Yellowish gray (5Y 7/2) mudstone with yellowish gray (5Y 7/2) rounded carbonate clasts (2mm - 2.5mm), medium dark gray (N4) shale at lower contact.



Depth		Scale		Bed No.	Bed Interval	Description
m	ft	m	ft			
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						Bed Description
11.34	37.37				DD	DD Medium gray (N5) wackestone with 0.2dm medium dark gray (N4) layer at upper contact; possible discontinuity; gypsum-filled vugs, skeletal fragments, fusulinids; sharp lower contact.
11.40	37.40				CC	CC Medium light gray (N6) wackestone to light gray (N7) with medium light gray (N6) masses (possibly burrows), increase in fusulinids upward, algal?, brachiopods; sharp upper and lower contacts.
11.58	37.99				BB	BB Very light gray (N8) wackestone with medium light gray (N6) masses (possibly burrows), large fusulinids (6mm x 3mm max.), <u>Palaeotextularia</u> , algal?, crinoids, brachiopods, chaetetids - 0.2dm - 0.6dm above lower contact; sharp "wispy" upper contact and sharp lower contact.
11.77	38.68				AA	AA Pale yellowish brown (10 YR 6/2) with light gray (N6) wackestone, fusulinids, algal?, brachiopods (articulated and disarticulated), skeletal fragments, gastropods, <u>Palaeotextularia</u> , chaetetids - 3.0dm - 4.3dm above lower contact, mottled - 1.0dm - 1.3dm above lower contact and 0.3dm below upper contact; gradational upper and lower contact.
					AA	Z Very light gray (N8) and light gray (N7) wackestone, mottled possible bioturbation; algal?, skeletal fragments, fusulinids, <u>Palaeotextularia</u> ; sharp upper and lower contacts.
					Y	Y Pale yellowish brown (10YR 6/2) with light gray (N7) wackestone, churned, skeletal fragments, brachiopods, chaetetids? (1mm in thickness), <u>Palaeotextularia</u> ; upper and lower contacts sharp.
12.28	40.29				X	X Light gray (N7), medium light gray (N6) wackestone, mottled, possible bioturbation; pale yellowish brown (10YR 6/2) "wispy" partings; brachiopods, skeletal fragments, fusulinids; sharp upper and lower contacts.
12.33	40.25				Z	Z
12.40	40.68				Y	W Light gray (N7) with pale yellowish brown (10YR 6/2) wackestone, mottled in upper 0.4dm, argillaceous partings 0.7dm below upper contact and at lower contact; chaetetids (5mm in thickness), brachiopods - articulated and disarticulated, large fusulinids (5mm x 3mm), crinoids, ramose bryozoans; gradational upper contact and sharp lower contact.
12.60	41.54				X	X
12.93	42.42				W	V Light gray (N7) wackestone with light olive gray (5Y6/1) wispy argillaceous parting 0.7dm above lower contact; algal?, crinoids, ramose bryozoans, brachiopods, crystalline vug (9mm x 4mm) 1.5dm above lower contact; upper and lower contact gradational.
					W	W
13.13	43.08				U	U Light gray (N7) wackestone, algal?, brachiopods; sharp, wispy upper and lower contacts.
13.05	42.81				V	6T Light gray (N7) wackestone with light olive gray (5Y 5/2) argillaceous "wispy" partings - algal?, high concentrations of brachiopods, horn corals, crinoids, ramose bryozoans in partings; sharp "wispy" upper and lower contacts.
13.13	43.08				V	V
					U	U
					T	T

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m	f	m	dm			
13.13	43.08	20				
		18		S	3	Light olive gray (5Y 5/2) clayey wackestone, "wispy", layers of very light gray (N8) to light gray (N7) wackestone with brachiopods, large crinoids (5mm x 7mm), fusulinids, gypsum-filled vugs; upper and lower contacts sharp.
13.35	43.80			R		Light gray (N7) wackestone, algal?, brachiopods, ophthalmid foraminiferids; sharp, "wispy", upper and lower contacts,
13.43	44.06	16		Q		Light olive gray (5Y 6/1) argillaceous wackestone, "wispy" partings, brachiopods, crinoids; upper and lower contacts sharp.
13.51	44.32			P		Medium light gray (N6) wackestone, algal?, brachiopods, crystalline vug (0.5dm above lower contact), ophthalmid foraminiferid, horn coral; light olive gray (5Y 6/1) clay/shale partings 0.9dm and 2.0dm above lower contact - ramose bryozoans, brachiopods, fusulinids, crinoids, skeletal debris; upper and lower contacts sharp.
		14		O		Light olive gray (5Y 5/2) wackestone (oil stain) between medium dark gray (N4) and light olive gray (5Y 6/1) "wispy", shaley, argillaceous partings; brecciation, ramose bryozoans, brachiopods, skeletal debris; sharp upper and lower contacts.
		12		N		Medium light gray (N6) wackestone fading into light gray (N7) wackestone, algal?, brachiopods, crystalline vug 0.3dm from upper contact; light olive gray (5Y 6/1) argillaceous partings 0.2dm and 1.1dm below lower contact; upper and lower contacts sharp.
13.94	45.73			O		
		10		M		Light gray (N7) wackestone, algal?, brachiopods, ophthalmid foraminiferids, skeletal fragments, crinoids, mottled appearance 0.5dm and 1.6dm above lower contact - possible bioturbation; light olive gray (5Y 6/1) and dark gray (N3) argillaceous parting 0.5dm below upper contact.
14.04	46.06			N		
		8		L		Dark gray (N3) wispy shale partings - brecciated?, brachiopods, skeletal, ramose bryozoans, fusulinids; light gray (N7) wackestone in between shale partings; light olive gray (5Y 5/2) wackestone above and below shale partings (possible oil stains); sharp upper and lower contacts.
14.26	46.78			K		
		6		M		Light olive gray (5Y 6/1) wackestone with 2.5dm olive gray (5Y 4/1) mass, fusulinids, ophthalmid foraminiferids, skeletal debris; fine, "wispy" medium dark gray (N4) parting; light gray (N7) wackestone, algal?, ramose bryozoans, ophthalmid foraminiferids; sharp upper contact, gradational lower contact.
14.56	47.77			J		
		4		L		Light gray (N7) wackestone, algal?, brachiopods; light olive gray (5Y 6/1) and dark gray (N3) argillaceous parting 0.8dm above lower contact; light olive gray (5Y 5/2) oil stain just below parting, crinoids; gradational upper contact, sharp lower contact.
14.64	48.03			GI		
		2		K		Light gray (N7) wackestone, algal fragments, brachiopods surrounded by yellowish gray (5Y 8/1) wackestone with light olive gray (5Y 6/1) and dark gray (N3) wispy partings; olive gray (5Y 5/2) oil stains - upper contact and 0.3dm above upper contact - brachiopods, skeletal debris, ramose bryozoans, fusulinids; light olive gray (5Y 6/1) argillaceous parting, lower contact - fusulinids, bryozoans, brachiopods, ophthalmid foraminiferids; sharp upper and lower contacts.
14.78	48.50			J		
		2				
14.97	49.11			I		
15.05	49.38					

Depth		Scale	Bed No.	Bed Interval	Bed Description
m	ft	m			
					<p>Locality Description: U.S. Army Corp of Engineers Core No. AC-29A Fort Scott Reservoir Project. Location: Ctr. of S1/2, SE1/4, SE1/4, NW1/4, SE1/4, Sec. 5, T.26S, R.24E Bourbon Co. Kansas Logged By: Erica Anderson, Feb. 1992</p>
					<p>Bed Description</p>
		20			H Light gray (N7) wackestone, algal?, ramose bryozoans, brachiopods, ophthalmid foraminiferids, horn coaral; light olive gray (5Y 5/2) oil stain 0.1dm above lower contact; sharp upper and lower contacts.
15.05	49.18	18			A Light olive gray (5Y 6/1) wackestone, algal?, brachiopods, ramose bryozoans; grayish black (N2) wispy shale partings - upper contact, 0.4dm and 0.6dm from upper contact and lower contact - brecciated?, crinoids, brachiopods, skeletal debris; sharp upper and lower contacts.
15.20	49.87		H		
					F Light gray (N7) wackestone, algal?, fusulinids, ramose bryozoans; dark yellowish brown (10YR 4/2) "wispy" argillaceous parting, skeletal debris; sharp upper and lower contacts.
15.30	50.20	16			E Light olive gray (5Y 6/1) wackestone matrix with very light gray (N8) and light gray (N7) clasts, brecciated?, brachiopods; sharp upper and lower contacts.
			G		
15.46	50.72	14			D Medium light gray (N6) wackestone, algal?, brachiopods, horn coral; grayish black (N2) "wispy" parting with very light gray (N8) wackestone above and below, 0.6dm above lower contact; sharp upper and lower contact.
15.55	50.95		F		
			E		C Medium light gray (N6) wackestone, algal?, crystalline vugs, bryozoans; "wispy", dark yellowish brown (10YR 4/2) argillaceous parting 0.5dm above lower contact - crinoids, brachiopods, ramose and fenestrate bryozoans; light gray (N7) argillaceous parting 2.0 dm above lower contact - brecciated, crinoids, brachiopods; sharp, "wispy" grayish black (N2) upper contact - large brachiopods (9mm x 1mm), crinoids, skeletal debris, sharp lower contact.
15.69	51.48	12			B Medium dark gray (N4) wackestone, upper 0.2dm argillaceous, brachiopods - articulated and disarticulated, ramose bryozoans, crinoids, fusulinids; sharp upper and lower contacts.
			D		6A Medium light gray (N6) wackestone, gypsum-filled vugs, crinoids, brachiopods (articulated and disarticulated), ramose bryozoans, skeletal debris; sharp "wispy" upper and lower contacts.
		10			O Medium gray (N5) mudstone, churned, possible bioturbation, brachiopods, skeletal debris; sharp upper contact, gradational lower contact.
16.06	52.70				N Medium dark gray (N4) mudstone, large brachiopods (17mm x 2mm), <u>Orbiculoidea</u> at upper contact; gradational upper contact, sharp lower contact.
16.11	52.90	8	6		M Medium gray (N5) calcareous mudstone, brachiopods; gradational upper contact, sharp lower contact.
16.18	53.17				L Medium dark gray (N4) mudstone, fissile; possible <u>Chondrites</u> , brachiopods, plant debris; sharp upper and lower contacts.
16.21	53.27				K Medium gray (N5) to light gray (N7) wackestone; brachiopods, crinoids, layer of brachiopods at upper contact; lower contact sharp.
16.26	53.44	6			J Grayish black (N2) mudstone, mottled appearance, possible <u>Chondrites</u> , brachiopods, <u>Orbiculoidea</u> ; sharp upper and lower contacts.
16.36	53.77				I Medium light gray (N6) mudstone, brachiopods; sharp upper and lower contacts.
					H Dark gray mudstone (N3) with medium gray (N5), blocky, mottled, possible <u>Chondrites</u> , brachiopods; sharp upper and lower contacts.
16.50	54.13	4			G Olive gray (5Y 4/1) mudstone, brachiopods; sharp upper and lower contacts.
					SF Dark gray (N3) mudstone with medium gray (N5), blocky, mottled, possible <u>Chondrites</u> , brachiopods; sharp upper contact, gradational lower contact.
16.69	54.76				
16.72	54.86				
16.77	55.02				
16.81	55.15				
16.85	55.28				
16.92	55.51				

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m	ft	m			
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16.92	55.51			E	
16.95	55.60			D	E Medium light gray (N6) to dark gray (N3) mudstone; brachiopods, possible <u>Chondrites</u> burrows; upper and lower contacts gradational.
17.13	56.20				D Dark gray (N3) bituminous mudstone, pyritic, possible <u>Chondrites</u> , <u>Neochonetes</u> on upper contact surface.
					Lost Core
17.41	57.10			C	Grayish black (N2) bituminous mudstone, brachiopods - on upper contact surface; gradational lower contact.
17.47	57.32			B	Grayish black (N2) bituminous mudstone, nodules - increasing upward, pyritic; upper contact thin layer of pyritic?/sideritic nodules, lower contact sharp.
				5A	Olive black (5Y 2/1) mudstone, finely laminated, pyritized brachiopods, gradational upper contact, sharp lower contact.
				B	Black (N1) coal, finely laminated, pyritic; sharp upper and lower contacts.
17.63	58.00		5	A	4A Medium gray (N5) mudstone with dark gray (N3) carbonaceous fragments and thin layer of black (N1) coal; sharp upper contact.
17.71	58.20		4	B	Lost Core
17.76	58.38				B Light olive gray (5Y 6/1) mudstone/shale, flakey, fissile, possible underclay; grayish black (N2) carbonaceous fragments, pyritic, plant debris, pyritic/sideritic in nodules upper 0.4dm.
17.77	58.40				Lost Core
17.79	58.90			B	Lost Core
18.02	59.10			3A	Light gray (N7) and medium light gray (N6) mudstone, mottled appearance with grayish yellow (5Y 8/4) carbonate clasts - possible soil profile; plant debris and carbonaceous films.
					Lost Core
18.29	60.00			H	Medium light gray (N6) wackestone clasts with argillaceous partings - possible exposure surface; lower 0.2dm appears "wispy," fusulinids; sharp lower contact.
18.4	60.40		3	A	2G Yellowish gray (5Y 7/2) wackestone with medium light gray (N6) carbon akte clasts, possibly pedogenic, karstification?; fusulinids, brachiopods, skeletal debris; sharp upper contact.
					Lost Core
18.56	60.90			H	
18.58	60.98			A	
18.74	61.50				
18.80	61.70				

Depth		Scale	Bed No.	Bed Interval	Description
m	ft				
18.80	61.70	20	2	F	F Yellowish gray (5Y 7/2) wackestone with medium light gray (N6) carbonate clasts, possibly pedogenic, karstification?, mottled; few fossils in medium light gray (N6) clasts, fusulinids and brachiopods in yellowish gray (5Y 7/2) wackestone; gradational lower contact.
19.10	62.66				
19.38	63.58	18	2	E	E Light olive gray (5Y 6/1) with olive gray (5Y 4/1) and medium light gray (N6) wackestone; mottled, possible <u>Chondrites</u> bioturbation; gypsum-filled vugs, fusulinids, fenestrate bryozoans, brachiopods (29mm x 1mm max.); gradational upper and lower contacts.
		16			
19.70	64.60	14	2	D	D Light olive gray (5Y 6/1) wackestone with medium gray (N5) masses; mottled, possible <u>Chondrites</u> bioturbation, fusulinids, brachiopods, fenestrate bryozoans, crinoids, gypsum-filled vugs 0.25dm above lower contact; gradational upper and lower contacts.
		12			
19.95	65.11	10	2	C	C Light olive gray (5Y 6/1) wackestone with medium gray (N5) masses; fusulinids, brachiopods, crinoids, gypsum filled vugs; gradational upper and lower contacts.
		8			
20.06	65.80	6	2	B	B Medium light gray (N6) wackestone; large fusulinids (5mm x 2mm) crinoids, brachiopods, fenestrate bryozoans, gypsum-filled vugs; gradational upper contact, "wispy" lower contact.
		4			
20.18	66.19	2	2	A	A Medium light gray (N6) wackestone, crinoids, brachiopods - articulated and disarticulated, fusulinids, ophthalmid foraminiferids, sideritic?, very light gray (N8) masses 0.3-0.7dm below upper contact; wispy gradational upper contact and sharp lower contact.
		0			
20.26	66.45	0	1	E	E Light gray (N7) mudstone, brachiopods - articulated and disarticulated (increasing upward); sharp upper and lower contacts.
		0			
20.45	67.10	0	1	B	B Medium gray (N5) mudstone with greenish gray (5GY 6/1) mottling, possibly bioturbation; blocky, phosphatic/sideritic and septarian nodules, sharp upper and lower contacts.
		0			
20.50	67.24	0	1	D	D Dark gray (N3) with olive gray (5Y 4/1) mudstone, ellipsoidal, pyritic, phosphatic/sideritic nodules, mottled (upper 0.1dm), possible bioturbation; gradational upper and lower contacts.
		0			
20.63	67.67	0	1	A	A Medium dark gray (N4) mudstone, blocky, septarian nodules (24mm x 15mm max.) - lower contact, mottled, possible bioturbation, pyritic; sharp upper contact and gradational lower contact.
		0			
20.73	68.00	0	1	D	D Dark gray (N3) mudstone, subspherical to ellipsoidal phosphatic/sideritic nodules (40mm max.), pyritic; gradational upper contact.
		0			
20.95	68.70		1		Lost Core

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