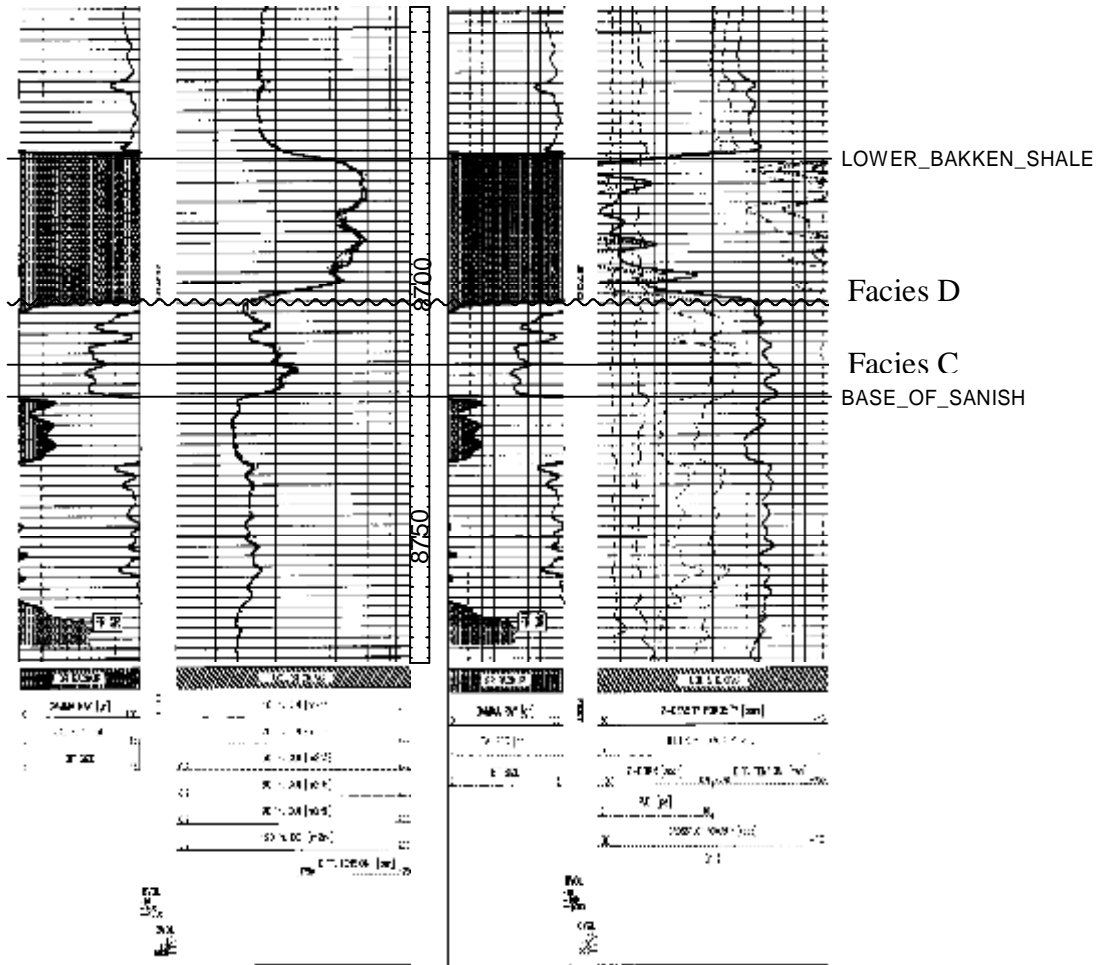


Appendix A.16
Core #16
Nordstog 14-23-161-98H Core Descriptions
153N 94W Sec 18
Core to Log = + 4.5'

Depth (ft)	Composition	Primary Structures	Secondary Structures	Single Diagnostic Criteria	Additional Diagnostic Criteria	Facies
8,707' – 8,711'	Grayish black (N2) to dark black (N1) shale	Vague parallel-laminations, very thin, platy.				LBS
8,711.' – 8,711.5'	Light green (5 G 8/1) to greenish gray (5 G 6/1) slightly dolomitic shale (30%) to very light gray silty dolomite (N8) (70%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, Major brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,711.5.' – 8,716.2'	Light green to greenish gray slightly dolomitic shale (60%) to very light gray silty dolomite (40%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation tee-pee structure near 10,592.8.'?	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,716.2.' – 8,717'	Light green to greenish gray slightly dolomitic shale (30%) to very light gray silty dolomite (70%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,717.' – 8,718'	Light green to greenish gray slightly dolomitic shale (50%) to very light gray silty dolomite (50%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,718.' – 8,719'	Light green/gray slightly dolomitic shale (80%) to very light gray silty dolomite (20%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,719' – 8,720'	Light green/gray slightly dolomitic shale (50%) to very light gray silty dolomite (50%),	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading	-Mud drapes -Uni- and bidirectional Reactivation surfaces	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D

	66-88μ, well-sorted, tightly packed		features, brecciation	-Bottom sets -Flame structures		
8,720' – 8,721'	Light green/gray slightly dolomitic shale (20%) to very light gray silty dolomite (80%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding	D
8,721' – 8,722'	Light green/gray slightly dolomitic shale (40%) to very light gray silty dolomite (60%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
8,722' – 8,724.5'	Light green/gray slightly dolomitic shale (50%) to very light gray silty dolomite (50%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding	D
8,724.5' – 8,726'	Light green/gray slightly dolomitic shale (5%) to very light gray silty dolomite (95%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures?	-Flaser bedding -Herringbone x-bedding	D
8,726' – 8,730.7'	Light green (5 G 8/1) to greenish gray (5 G 6/1) shale and very light gray (N8) to medium gray (N5) silty dolomite	Massive SSD, lamination in silty dolomite clasts	Highly deformed bedding, high amounts of brecciation	-Mud drapes		C
8,730.7' – 8,738'	Dark greenish-gray (5 GY 4/1) to medium dark gray (N4) silty dolomite	Massive, rip-up clasts of varying size.	Vague. Pyrite			B



Described Cored Interval: 8,707' – 8,738'.