

Appendix A.4
Core #4
Dinwood #1 (Antelope-Madison Unit H-523I) Core Descriptions
153N 94W Sec 33
Core to Log = No Log Available

Depth (ft)	Composition	Primary Structures	Secondary Structures	Single Diagnostic Criteria	Additional Diagnostic Criteria	Facies
10,716' – 10,722''	Grayish black (N2) to dark black (N1) shale	Vague parallel-laminations, very thin, platy,				LBS
10,718.3' – 10,722.9	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE
10,722.9' – 10,723'	Dark Black Shale - Light green (5 G 8/1) to greenish gray (5 G 6/1) slightly dolomitic shale (20%) to very light gray silty dolomite(N8) (80%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD, dark layering	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/LBS
10,723' - 10,724'	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, dark layering	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
10,724' - 10,725'	Light green to greenish gray slightly dolomitic shale (20%) to very light gray silty dolomite(80%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD, dark layering	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Syneresis cracks	D
10,725' - 10,727'	Light green to greenish gray slightly dolomitic shale (35%) to very light gray silty dolomite(65%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD, dark layering	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Flaser Forks -Herringbone x-bedding -Syneresis cracks	D
10,727' - 10,730'	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, dark layering	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
10,730' - 10,732'	Light green to greenish gray slightly dolomitic shale (20%) to very	Parallel-laminations, cross-laminations,	Desiccation cracks, scour surfaces, energy decrease	-Mud drapes -Uni- and bidirectional Reactivation	-Flaser bedding -Herringbone x-bedding -Syneresis	D

	light gray silty dolomite(80%), 66-88μ, well-sorted, tightly packed	SSD, dark layering	features, loading features, brecciation	surfaces -Bottom sets -Flame structures	cracks	
10,732' - 10,733'	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, dark layering	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
10,733' - 10,735'	Light green to greenish gray slightly dolomitic shale (40%) to very light gray silty dolomite(60%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD, dark layering	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

*** No Log Available