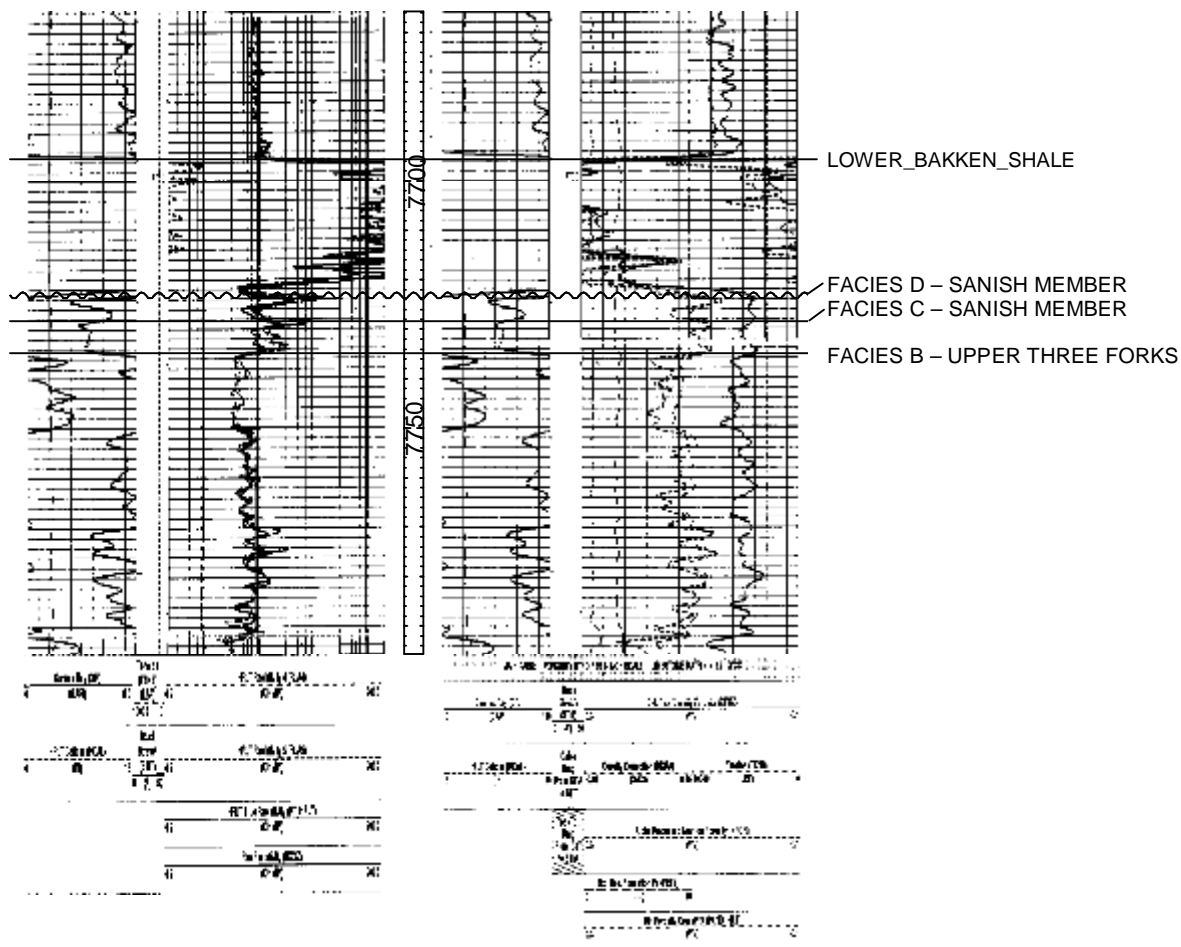


Appendix A.10 Core #10 Loucks 44-30 Core Descriptions 163N 95W Sec 30 Core to Log = -4.2'						
Depth (ft)	Composition	Primary Structures	Secondary Structures	Single Diagnostic Criteria	Additional Diagnostic Criteria	Facies
7,723' – 7,726.2'	Grayish black (N2) to dark black (N1) shale	Vague parallel-laminations, very thin, platy,				LBS
7,726.2' – 7,727'	Light green (5 G 8/1) to greenish gray (5 G 6/1) mudstone (50%) to very light gray silty dolomite (N8) (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
7,727' – 7,728'	Light green to greenish gray mudstone (10%) to very light gray silty dolomite (90%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Flame structures	-Fenestrate porosity (?) -Algal heads?	D
7,728' – 7,729'	Light green to greenish gray mudstone (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	-Herringbone x-bedding -Fenestrate porosity (?) -Syneresis cracks	D
7,729' – 7,730'	Light green to greenish gray mudstone (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
7,730' – 7,731'	Light green to greenish gray mudstone (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 -Syneresis cracks	D
7,731' – 7,732'	Light green to greenish gray mudstone (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	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D

				structures		
7,732' – 7,733'	Light green to greenish gray mudstone (0%) to very light gray silty dolomite (100%), 66-88μ, well-sorted, tightly packed	Unidentifiable	Unidentifiable	Unidentifiable	Unidentifiable	D
7,733' – 7,734'	Light green to greenish gray mudstone (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
7,734' – 7,735'	Light green to greenish gray mudstone (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	-Herringbone x-bedding -Syneresis cracks	D
7,735' – 7,736'	Light green to greenish gray mudstone (10%) to very light gray silty dolomite (90%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, cross-laminations, SSD	Desiccation cracks, scour surfaces, energy decrease features, loading features, brecciation	-Mud drapes -Flame structures	-Syneresis cracks	D
7,736' – 7,739'	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	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	C
7,737' – 7,743'	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 Core Interval: 7,723' – 7,743'.