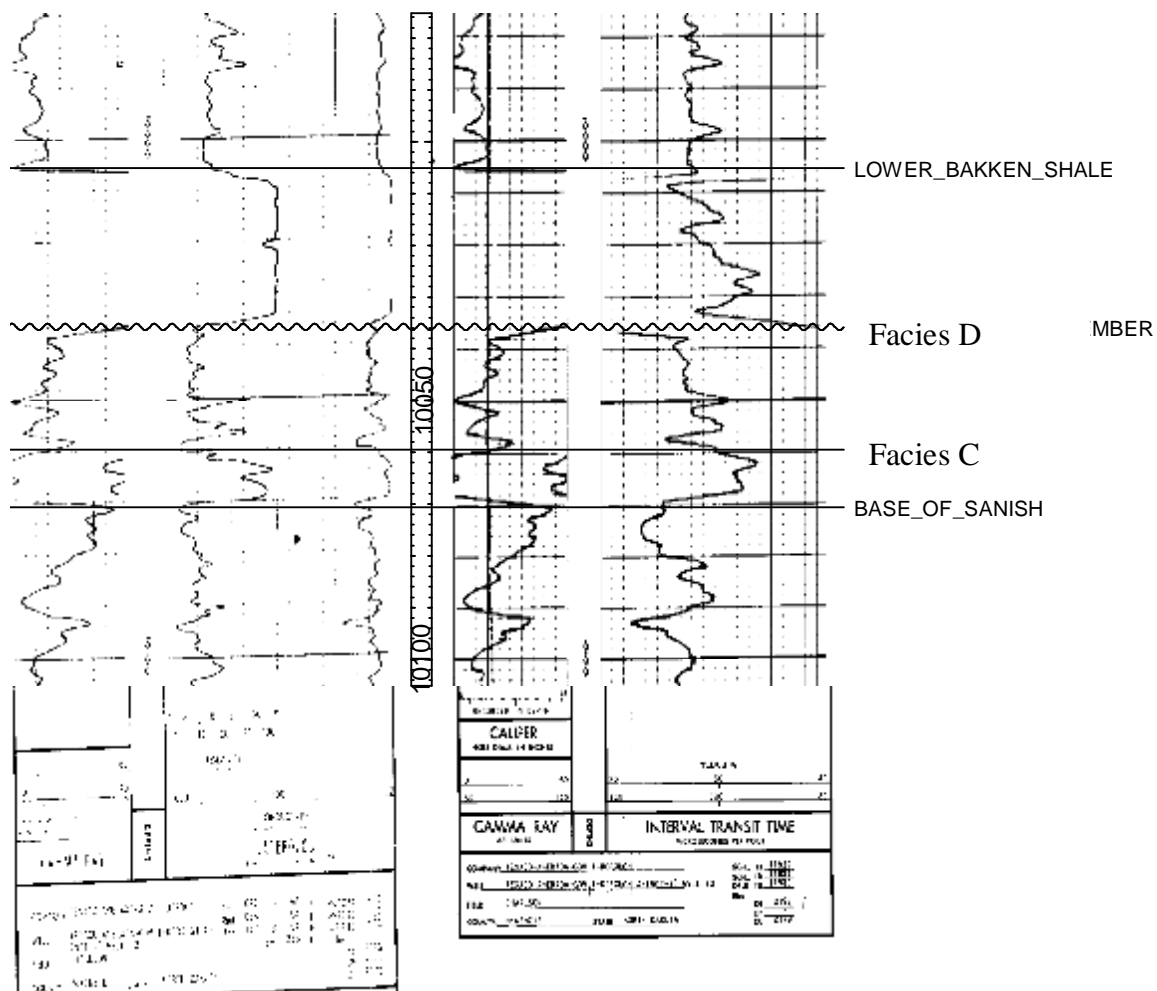


Appendix A.13  
Core #13  
Devonian 5-1 Core Descriptions  
153N 95W Sec 3  
Core to Log = +3'

Depth (ft)	Composition	Primary Structures	Secondary Structures	Single Diagnostic Criteria	Additional Diagnostic Criteria	Facies
10,030' – 10,033.6'	Grayish black (N2) to dark black (N1) shale	Vague parallel-laminations, very thin, platy.				LBS
10,033.6' – 10,045.7'	Light green (5 G 8/1) to greenish gray (5 G 6/1) slightly dolomitic shale (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 -Syneresis cracks	D
10,045.7' – 10,047.5'	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	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
10,047.5' – 10,049'	Light green to greenish gray slightly dolomitic shale (40%) to very light gray silty dolomite (60%), 66-88μ, well-sorted, tightly packed	Parallel-laminations, High amounts of 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
10,049' – 10,050'	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
10,050' – 10,051'	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	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
10,051' – 10,053.7'	Light green to greenish gray slightly dolomitic shale (30%) to very light gray silty	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

	dolomite (70%), 66-88μ, well-sorted, tightly packed		features, brecciation	-Bottom sets -Flame structures		
10,053.7' – 10,055'	Light green to greenish 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
10,055' – 10,056'	Cream silty dolomite to gray/green slightly dolomitic shale, 66-88μ, well-sorted, tightly packed	Massive cross-laminations, SSD and parallel lamination in silty dolomite clasts	Highly deformed bedding, high amounts of brecciation	-Mud drapes		D
10,056' – 10,057'	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	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
10,057' – 10,057.7'	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 -Herringbone x-bedding	D
10,057.7' – 10,066.5'	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 cross-laminations, SSD and parallel lamination in silty dolomite clasts	Highly deformed bedding, high amounts of brecciation	-Mud drapes		C
10,066.5' – 10,071'	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: 10,030' – 10,071'.