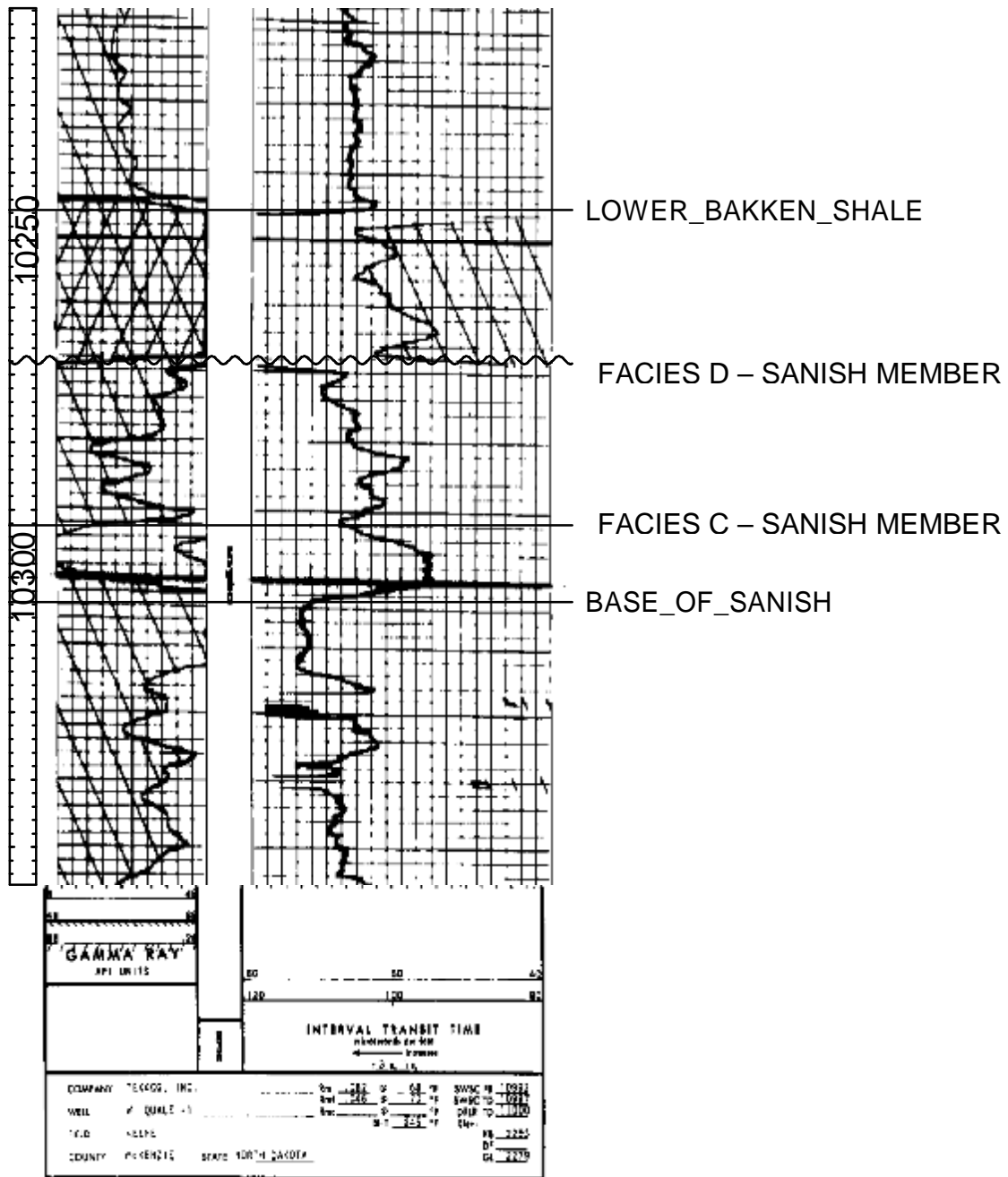


Appendix A.15 Core #15 W Quale #1 Core Descriptions 153N 95W Sec 31 Core to Log = Missing Core for Correct Core to Log						
Depth (ft)	Composition	Primary Structures	Secondary Structures	Single Diagnostic Criteria	Additional Diagnostic Criteria	Facies
10,260.4' 10,263.3'	Grayish black (N2) to dark black (N1) shale	Vague Parallel- laminations, very thin, platy				LBS
10,263.3' 10,265.4'	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE	MISSING CORE
10,265.4' 10,265.7'	Light green (5 G 8/1) to greenish gray (5 G 6/1) slightly dolomitic shale (10%)to very light gray silty dolomite (N8) (90%), 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
10,265.7' 10,268.5'	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
10,268.5' 10,269.7'	Light green to greenish gray slightly dolomitic shale (80%) to cream 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
10,268.5' 10,275.3'	Light green to greenish gray slightly dolomitic shale (50%) to cream silty dolomite (50%), 66- 88μ, well-sorted, tightly packed	Parallel- laminations, cross- laminations, SSD	Mud 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
10,275.3' 10,276.7'	Light green to greenish gray slightly dolomitic shale (70%)to very light gray silty dolomite (30%), 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
10,276.7' 10,280'	Light green to greenish gray slightly dolomitic	Parallel- laminations, cross-	Desiccation cracks, scour surfaces, energy	-Mud drapes -Uni- and bidirectional	-Flaser bedding -Herringbone x- bedding	D

	shale (40%)to very light gray silty dolomite (60%), 66-88μ, well-sorted, tightly packed	laminations, SSD	decrease features, loading features, brecciation, Fluid escape structures	Reactivation surfaces -Bottom sets -Flame structures	-Syneresis cracks	
10,280' 10,282'	Light green to greenish gray slightly dolomitic shale (70%)to very light gray silty dolomite (30%), 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
10,282' 10,284'	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, Fluid escape structures	-Mud drapes -Uni- and bidirectional Reactivation surfaces -Bottom sets -Flame structures	-Flaser bedding -Herringbone x-bedding -Syneresis cracks	D
10,284' 10,285.8'	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
10,285.8' 10,287'	Light green to greenish gray slightly dolomitic shale (60%) to cream silty dolomite (40%), 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



Described Cored Interval: 10,260.4' – 10,287'.