

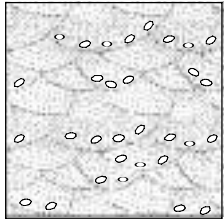
**UTM 0473725E 6319050N**

Released as part of Appendix 6 in  
AER/AGS Open File Report 2017-08

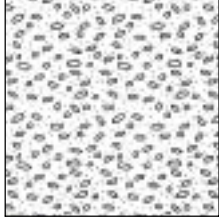
GRAIN SIZE		BIOTURBATION INTENSITY	FACIES	DEPOSITIONAL ENVIRONMENT	REMARKS
METRES	<div><div><div>granule</div><div>sand</div><div>silt</div><div>clay</div></div><div><div>v</div><div>c</div><div>m</div><div>f</div><div>v</div></div></div>				
44					Top of Section
42					Black, wavy discontinuous mudstone, silty (Wabiskaw Mbr)
					Mudstone bedding <1cm, 0.5 to 5m in length with a frequency of 40/m
40					Wabiskaw/McMurray contact
			12B	sand flat	Unit 12 Mudstone beds greater than 15 m in length, 5 to 15cm thick with a frequency of 1 to 2
			16		
			12B		
			16		
38			12B	mixed flat	Light brownish grey sandy silt, carbonaceous, undulating contact with underlying unit
			16		
			12B		
			16		
36			13A	sand flat	Units 10 and 11 Light grey mudstone beds and discontinuous lenses, 5 to greater than 15 m in length, 3cm thick with a frequency of 2/m some small scale swaly bedding, wave rippled mud beds in places, burrowing increases slightly upwards
34					Unit 9? Partially exposed interbedded sand and silty mudstone (lateral accretion bedding)
32					Units 7 and 8 Light grey mudstone beds greater than 15m in length with a frequency of 3/m
30			12A	mixed flat	Light grey mudstone beds greater than 15m in length, 3 to 5cm thick with a frequency of 10/m
			16		
28			10A	estuarine point bar	Unit 6 Mudstone beds light grey, greater than 15m in length, 1 to 3cm thick with a frequency of 3 to 4/m
26					Unit 5B Mudstone beds greater than 20m in length, less than 10cm thick with a frequency of 2/m
24					Paleocurrent Data: 350, 15 (lateral accretion surfaces) 330, 15 325, 14 -abrupt reactivation surface
22		8A	280, 35 (ripple cross stratification) Unit 5A		
20			Unit 4		
18			Paleocurrent Data: 065, 14 (lateral accretion surface) 295, 33 (ripple cross stratification)		
16		10A	Unit 3B Mudstone beds less than 10cm thick, greater than 20m in length with a frequency of 2/m		
14			Paleocurrent Data: 010, 18 (lateral accretion surface)		
12			Unit 3A Mudstone beds greater than 20m in length, less than 10cm thick with a frequency of 2/m		
10			Paleocurrent Data: 305, 30 (ripple cross stratification) Paleocurrent Data: 005, 17 (lateral accretion surface)		
8			estuarine channel	Unit 2 Trough cross-bedded sand	
6		5			
4					
2					
0		1	fluvi-	Unit 1 Lower McMurray	

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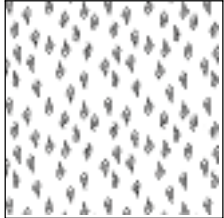
Facies 1: Coarse Grained to Pebbly, Poorly Sorted, Trough Cross-Bedded Sand



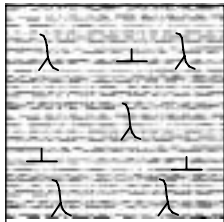
Facies 2: Very fine Grained to Pebbly, Poorly Sorted, Graded Gravel



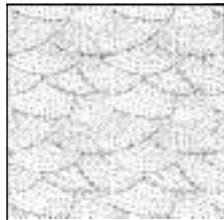
Facies 3: Carbonaceous to Coaly, Rooted Silty Mudstone



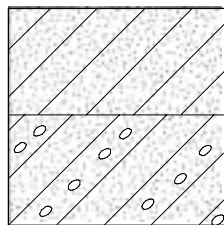
Facies 4: Mottled Argillaceous Sandy Marl



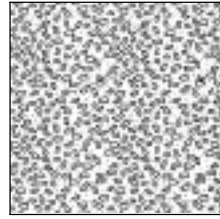
Facies 5: Fine to Medium Grained, Trough Cross-Bedded Sand



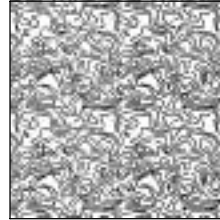
Facies 6: Fine Grained to Pebbly, Planar-Tabular Cross Bedded Sand



Facies 7A: Fine to Medium Grained, Poorly Sorted, Mudstone-Clast Breccia



Facies 7B: Slumped Sand and Mudstone



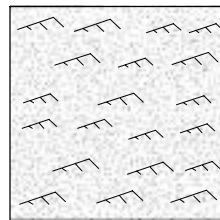
Facies 8A: Fine to Coarse Grained, Massive Sand



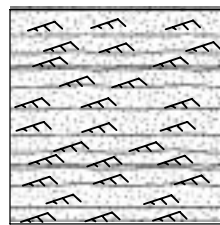
Facies 8B: Poorly to Well Sorted, Massive Sandy Silt/Silty Sand



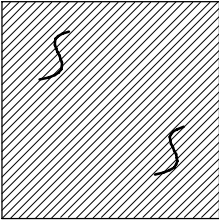
Facies 9A: Very Fine to Fine Grained, Ripple Cross-Bedded Sand



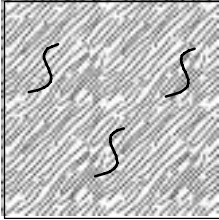
Facies 9B: Very Fine to Fine Grained, Flaser Bedded Sand and Mudstone



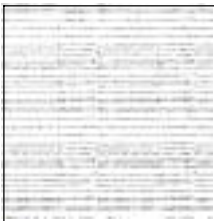
Facies 10A: Bioturbated, Inclined Heterolithic Stratified Muddy Sand



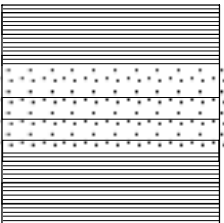
Facies 10B: Bioturbated, Inclined Heterolithic Stratified Sandy Mudstone



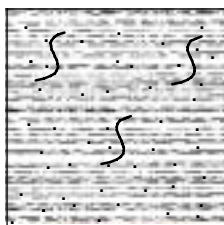
Facies 11: Very Fine to Medium Grained, Stratified Sand



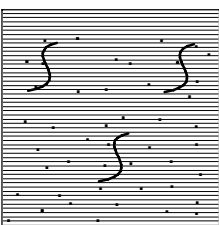
Facies 12A: Rhythmically Laminated Sand and Mudstone



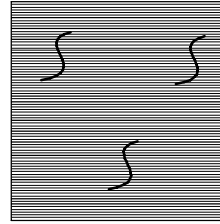
Facies 12B: Very Fine to Fine Grained, Bioturbated, Muddy Sand



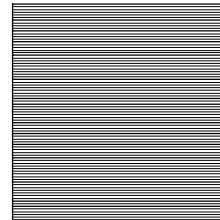
Facies 12C: Very Fine to Fine Grained, Bioturbated, Sandy Mudstone



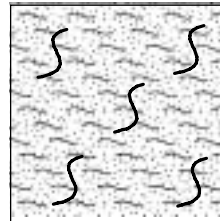
Facies 12D: Laminated to Thinly Interbedded, Bioturbated Silty mudstone



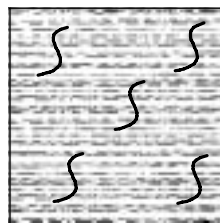
Facies 12E: Thinly Laminated Silty Mudstone/Mudstone



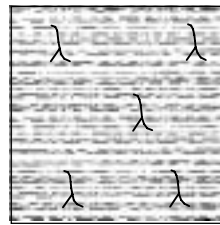
Facies 13A: Very Fine Grained, Heavily Burrowed Muddy Sand.



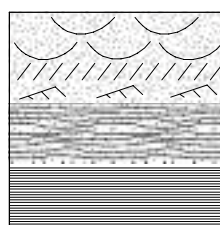
Facies 13B: Intensely Burrowed, Silty Mudstone/Muddy Silt



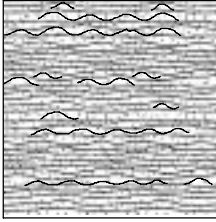
Facies 14: Coaly and/or Rooted, Sandy-Muddy Siltstone to Silty Mudstone



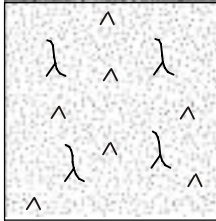
Facies 15: Coarsening-Upward Mudstone-Siltstone-Sand



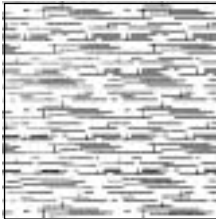
Facies 16: Very Fine to Fine Grained, Well Sorted, Wave Rippled Sand



Facies 17: Silicified Sandstone ('Beaver River Sandstone')



Facies 18: Poorly Sorted, Karstic Calci-/Siliciclastics



# Graphic Legend for Outcrop Logs

## UTM Coordinates: 1:50 000 Maps

### LEGEND

#### LITHOLOGY

	SAND/SANDSTONE		sandy silt		organic shale		LIMESTONE
	silty sand		SHALE/MUDSTONE		coal		Calcareous shale
	shaly sand		silty shale		conglomerate		Coquina
	SILT/SILTSTONE		sandy shale		breccia		

#### CONTACTS

	Scoured		Bioturbated		Undulating
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#### PHYSICAL STRUCTURES

	- Current Ripples		- Trough Cross-strat.		- Oscillatory Ripples
	- Climbing Ripples		- Planar Tabular Bedding		- High Angle Tabular Bedding
	- Low Angle Tabular Bedding		- Flaser Bedding		- Wavy Parallel Bedding
	- Lenticular Bedding		- Herringbone Cross-strat.		- Hummocky Cross-strat.
	- Convolute Bedding		- Chaotic Bedding		- Scour
	- Graded Bedding		- Reverse Graded Bedding		- Fault
	- Reactivation Surface		- Double Mud Drapes		- Load Casts
	- Tight zone				

#### LITHOLOGIC ACCESSORIES

	- Sand Lamina		- Shale Lamina		- Pebbles/Granules
	- Coal Lamina		- Organic Shale Lamina		- Calcareous
	- Siderite		- Glaucinitic		- Pyrite
	- Rip Up Clasts		- Coal Fragments		- Wood Fragments
	- Shell Fragments		- Paleosol Horizon		- Micaceous
	- Sulfur		- Feldspathic		- Iron

#### ICHTHOFOSSILS

	- Rootlets		- Skolithos		- Planolites
	- Gyrolithes		- Diplocraterion		- Arenicolites
	- Ophiomorpha		- Escape Trace		- Cylindrichnus
	- Thalassinoides		- Teichichnus		

#### BIOTURBATION

	Abundant
	Common
	Moderate
	Rare
	Barren