

5. RESULTS

TABLE 1: MINERALOGY OF CLAY FRACTION BY XRD, PELICAN-5

-2 μm %	2787 m		2788.5 m		3103.5 m*	
	6		5		6	
Mineralogy	K	D	ML	D	Sm ⁺	D
	ML	A-SD	M	SD	M	SD
	M	A-SD	K	A-SD	K	SD
	Q	A	Q	A	Q	Tr
	Sm	A	Sid	Tr-A	C	Tr
			Sm	Tr		

*In this sample barite is the dominant mineral. This was ignored when calculating the clay mineral proportions.

MINERAL KEY

C	Chlorite
K	Kaolinite
M	Mica/Illite
ML	Mixed layer - interstratified smectite and illite in approximately equal proportions
Q	Quartz
Sm	Smectite
Sm ⁺	Smectite with appreciable proportion of interstratified illite