



Table T13. Downhole surfaces and trends from petrophysical and downhole measurements, Hole M0027A. (See table notes.)

Depth (mbsf)	Depth		Total gamma ray	Th/K	U	Th	Conductivity	Sonic	V _p	Density	Resistivity	Magnetic susceptibility	Surface correspondence	Comments/Interpretation
	Top	Bottom												
15.0	—	—	Increase											
29.0	—	—				Increase								
—	93	96	Peak											
—	110	111				Peak								
118.0	—	—	Decrease											
168.0	—	—	Increase											
194.0	—	—										Increase	m4.1 surface 1 m below	
205.04	—	—	Small Low									Decrease	No corresponding surface	Very clear in acoustic image; massive clays change to banded clays
208.0	—	—										Decrease	No corresponding surface	Base of high magnetic susceptibility
219.0	—	—				Small Peak							m4.5 surface 1 m above	
224.0	—	—	Hole										m5.2 surface 1 m below	
230.0	—	—											Unnamed surface 1 m below	
—	234.7	236.2	Increase	Increase									m5.3 surface 1 m below	Log picks out sand to clay lithology change
—	255	256	Fluctuations										MFS/TS/m5.32 surface in this interval	
271.0	272	274	Hole										m5.4 surface at top of interval	
295.0	—	—			Increase								Unit III/IV boundary and unnamed surface	
308.0	—	—								Increase			No corresponding surface	
324.0	—	—								Increase			No corresponding surface	
332.5	—	—											m5.45 surface 0.5 m above	
336.0	—	—	Hole										Unit IV/V boundary and m5.47 surface	
355.0	—	—		Increase									m5.6	Cemented horizon
361.0	—	—				Peak			High V _p discrete sample				m5.7	Cemented horizon
420.0	—	—											No corresponding surface	
459.0	—	—				Peak							No corresponding surface	
465.0	—	—				Peak							MFS	
474.0	468	474	Increase		Increase					Increase			No corresponding surface	
489.6	—	—											Bottom pick of three for m5.8	Cemented horizon
—	495	500	Increase										m6 surface at top of interval	
533.0	533	534											o.5 6 m below	Cemented horizon
571.0	—	—	Hole										No corresponding surface	
585.0	—	—											o1 surface	
—	596	600	Decrease										Surface in core at top of interval	
—	621	622	Peak (core)							Decrease			In between two surfaces EOT 3 m below	

Notes: — = not applicable. All descriptions indicate increase/decrease downhole. No petrophysical picks have been made using gamma ray in the top 200 m of the hole with no core recovery; refer to text and Fig. F3 for discussion of this interval. Hole = sharp confined low in measurement, peak = sharp confined high in measurement. MIC = marine isotope chron. MFS = maximum flooding surface, TS = transgressive surface. EOT = Eocene–Oligocene transition.