

The Upper Cretaceous seismic horizon, and map horizon, is based on Palynologic zonation. Above and below this horizon, the section consists of interbedded massive sandstone and lesser amounts of shale.

The intra-Upper Cretaceous Unconformity seismic horizon, and map horizon, marks the top of a massive carbonaceous shale section beginning at 4492 feet in the Durroon #1 well. It is recognized regionally. A significant reduction of the interval velocity from 9200 feet per seconds down to 8000 feet per seconds marks this boundary.

The mid-Cretaceous Unconformity seismic horizon, and map horizon, marks the boundary, in this well, between the potential reservoir quality sandstone above and the non reservoir quality sandstone below. The former being porous and permeable, while the later being lithic sandstone with an abundant clay matrix and silica cement. This reflector is recognizable and mappable over a large area however, it may not always represent the unconformable boundary between reservoir and non reservoir sandstones.