

Maps 4 and 5 are the east and west panels of a seismic time structure map at the intra-Upper Cretaceous Unconformity horizon. The scale is 1:100,000. The contour interval is 100 milliseconds. These two maps cover portions of the Permit T-15-P and T-16-P area.

This seismic horizon is a very major unconformity recognized in the Durroon #1 well. Severe truncation of beds occur beneath it. It is recognized and mapped regionally with a relatively high degree of confidence, although it is realized that at Durroon #1 it may be particularly well developed due to the location of this well on a tilted fault block which was obviously active at this horizon time. At the Durroon #1 well location, the unconformity marks the boundary between an objective sequence of interbedded sandstone and shale above and a massive carbonaceous shale sequence below. Seismic lines show that the shale section below the unconformity expands rapidly, off structure, and contains an interbedded sequence

At this map level, the Chat prospect is shown to be located on the upthrown side of a very major northwest trending basin forming fault. On trend with it and to the southeast, are two large closure areas located outside the permits area, further to the southeast is the Durroon #1 well.

The Sea Eagle prospect is located on a sub-parallel and separate fault trend.

The A-6 prospect is well illustrated at this horizon level, while the key fault trends and a minor closure are recognized in the A-4 prospect area.

Map 6 is a seismic dip rate map on events truncated beneath the intra-Upper Cretaceous Unconformity horizon. The scale is 1:100,000 and the contour interval is 100 milliseconds. This map covers portions of Permit T-15-P and T-16-P.

The A-4 and 81-21 prospects are fault bounded, westward dipping, tilted fault blocks. The trapping mechanism is one of termination of beds beneath an unconformity surface at the shallow levels and up-dip termination of beds against a fault plane at the deeper levels. Closure at the unconformity level is mapped at the A-4 prospect location. Regional dip is to the northwest and critical dip is towards the southeast.

Map 7 is a seismic isotime map between the intra-Upper Cretaceous Unconformity horizon and the mid-Cretaceous Unconformity horizon over the Sea Eagle prospect area. This isotime interval pinches-out over the central area of this major southwestward tilted fault block.

The scale is 1:100,000 and the contour interval is 50 milliseconds.