

The Tectonics and Its Petroleum in the East China Sea Shelf Basin

Li Peilian, China National Star Petroleum Corporation, Beijing, China

There are two basins of Meso-Cenozoic in the East China Sea Shelf. The two development stages had been undergone: 1) The marginal continent fault-down stage and, 2) The marginal continent rifting stage. Within rifting stage, Paleocene fault-down basin, Eocene rifting basin as well as Okinawa backarc basin was developed. Two inversions took place in the stage. The existing exploration results show that: 1) the distribution of hydrocarbon source rocks is controlled by the tectonics of basin and its evolution; 2) Eocene mudstone and coal are both the main source rock; 3) The Zhedong depression possesses the good geological conditions which allow to form a big oil and gas field.