

**PETROLEUM GEOLOGY SEMINAR 1980 - ABSTRACTS OF PAPERS****DIRECT HYDROCARBON INDICATORS ON SEISMIC DATA IN THE MALAY BASIN****KHEE KOK KEAN, G.G. PHIPPS and R.J. STEELE****Exploration Dept., Esso Production Malaysia Inc., Kuala Lumpur**

The presence of hydrocarbons within clastic sediments often causes significant changes in their velocity and density properties. These changes are particularly evident in young Tertiary clastic basins. The Malay Basin is one such example. Using typical Malay Basin sand and shale velocities and densities, seismic modelling shows that hydrocarbon bearing sands strongly influence the seismic response. Similar effects are seen to occur on seismic data across hydrocarbon bearing fields. Careful analysis of these seismic response characteristics allows the geophysicist to predict the occurrence of hydrocarbons in the subsurface. However, caution should be used as other conditions can cause similar effects on the seismic data.

\*\*\*\*\*