MACROSEEP ASSOCIATION WITH PRODUCTION

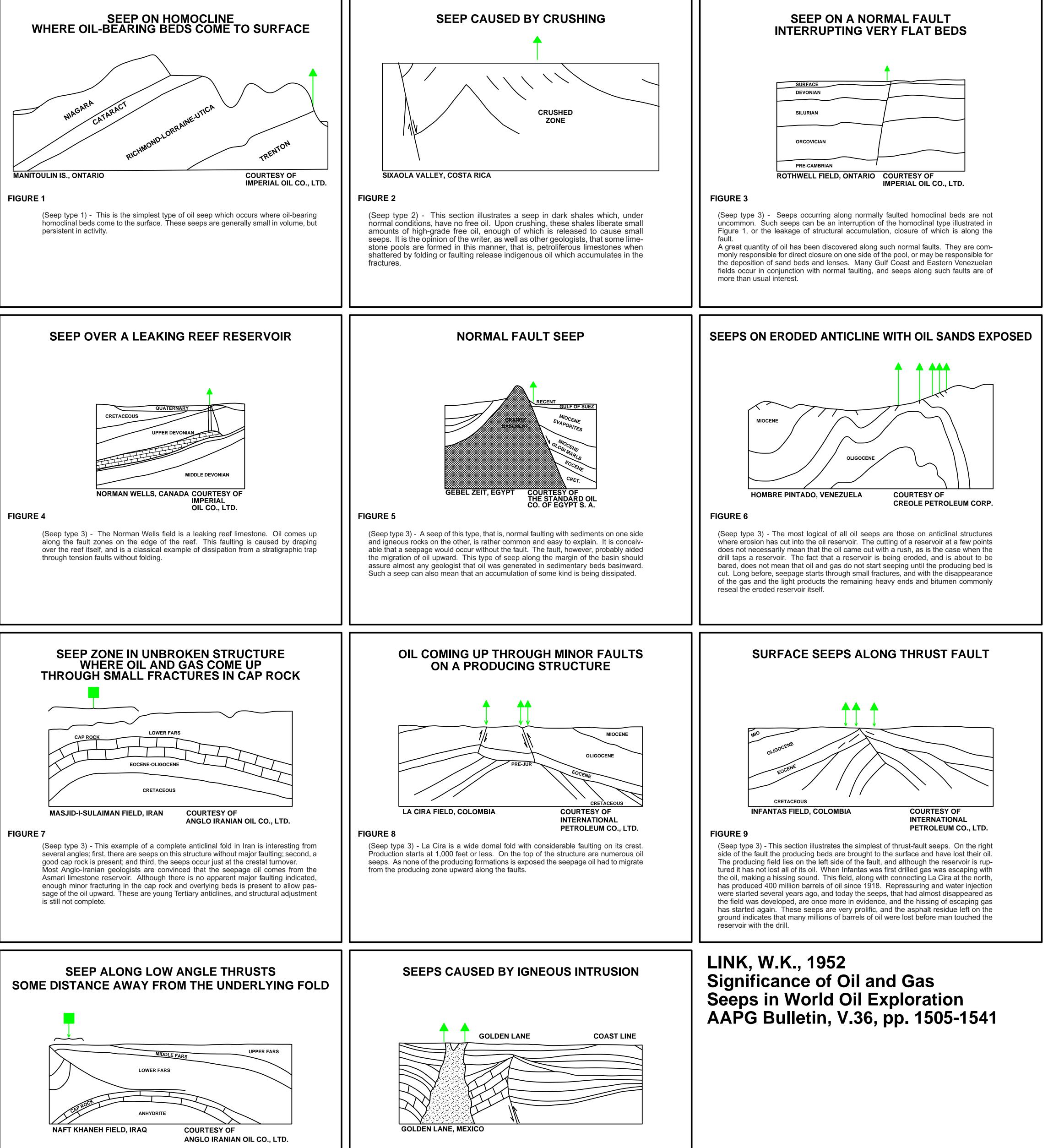


FIGURE 10

(Seep type 3) - Most of the discovered oil fields in Iraq and Iran have associated with them oil and/or gas seeps. These seeps are not necessarily over the subsurface structure. The Lower Fars formation overlying the cap rock is a salt anhydrite section, and during the last folding, which is of the compression type, this salt and anhydrite mass flowed and in many places was thrust over the more competent cap rock. The surface indication of structure, therefore, does not everywhere match the subsurface, and it generally requires a number of wells definitely to pin down the producing structure. In the Naft Khaneh field the oil and gas escaped through fractures in the cap rock, found the thrust fault, and the migrated along the fault to the surface.

FIGURE 18

(Seep type 5) - Many of the seeps in Mexico are associated with stock-like, igneous intrusions. These intrusions penetrate the entire sedimentary section, and at the contact of the igneous with the sedimentary rocks, seeps are common. It is the opinion of many geologists that these seeps are not connected with large subsurface accumulations.

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