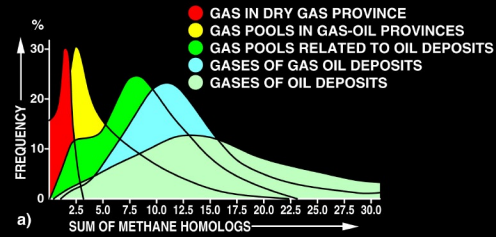


ANALYSES OF 3500 RESERVOIRED HYDROCARBON GASES
(After Nikonov, 1971)



LOCATION OF GAS, OIL AND CONDENSATE SURVEYS



TYPICAL HISTOGRAMS OF DRY GAS AND OIL SURVEY DATA

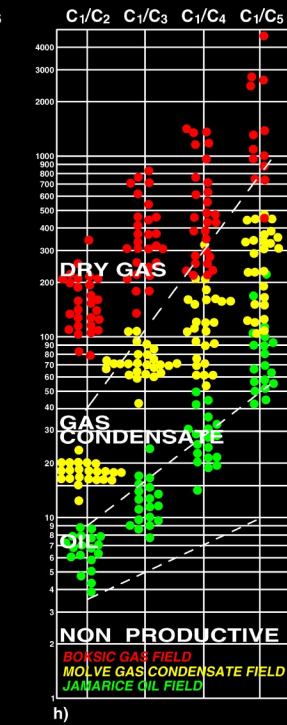
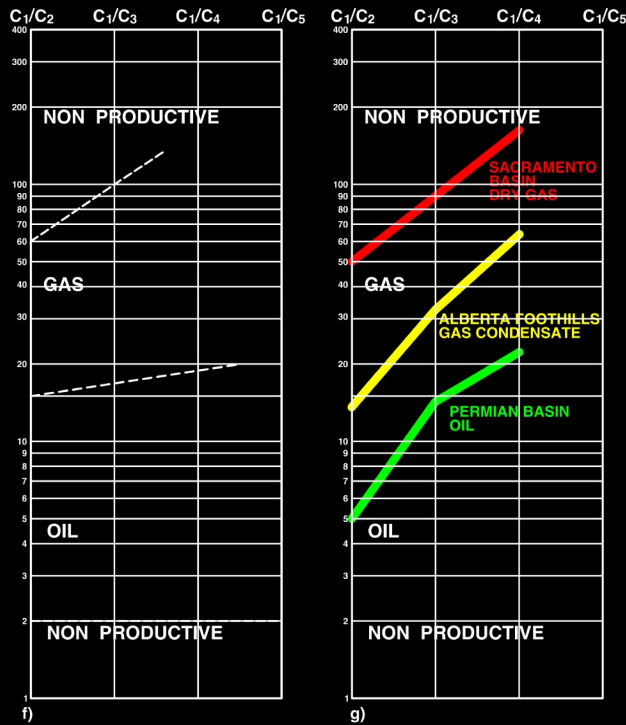
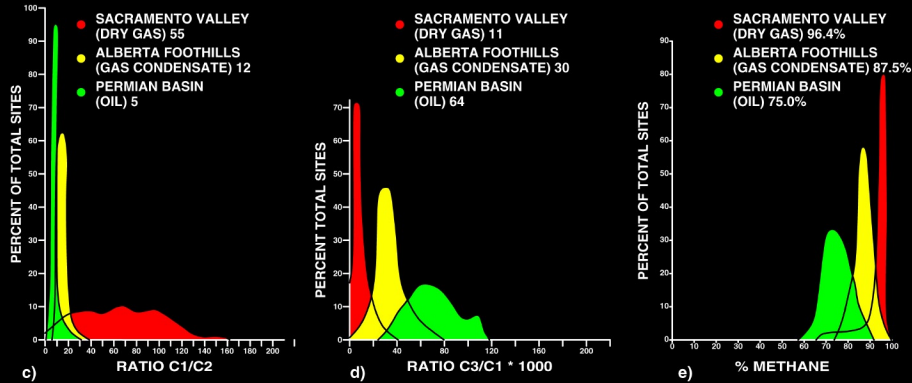


Fig. 5-20. a) Frequency distribution of the sum of methane homologs in 3,500 samples from different types of reservoirs (reproduced with permission from Nikonov, 1971); b) Location of gas, oil, and condensate surveys. Frequency distributions of hydrocarbons in soil gas over different basins: c) methane content (%C₁); d) methane:ethane ratio (C₁/C₂); e) propane:methane ratio (1000 x C₃/C₁); d) Pixler ratio diagram, Pixler (1969); f) Soil gas plotted on Pixler diagram; g) Reservoir gas analysis plotted on Pixler diagram, Verbanac, et al., (1982).