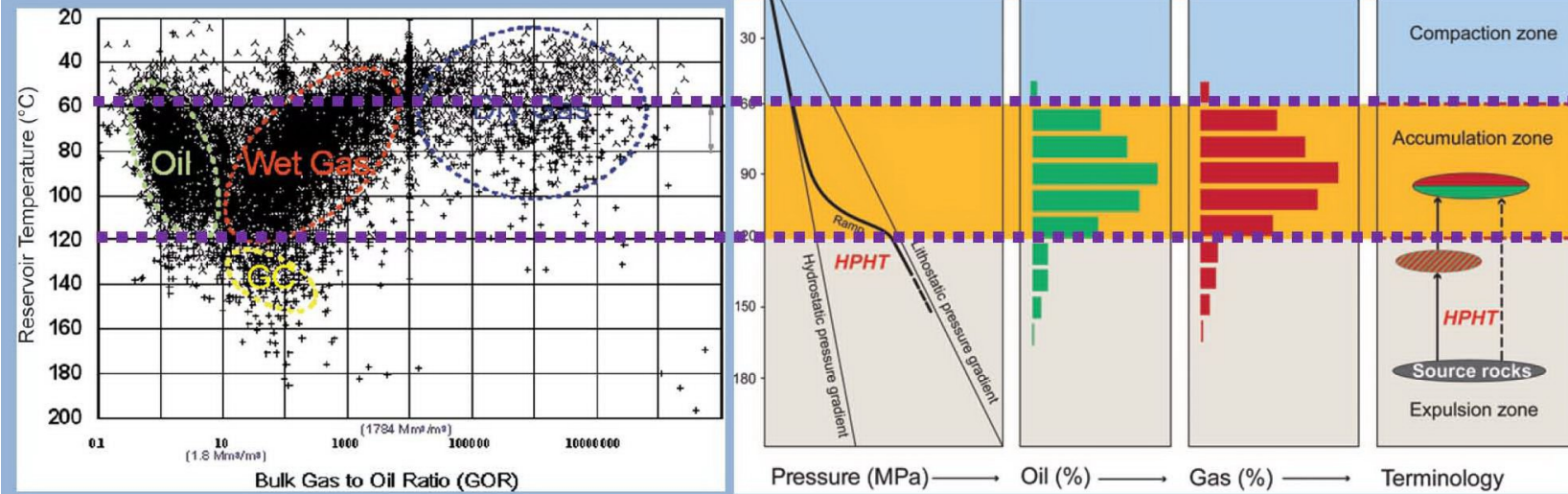


GOLDEN ZONE

FUNDAMENTAL CHANGES IN THE POROSITY AND PERMEABILITY OF MUDSTONE (SEALS) AND SANDSTONE (RESERVOIRS) ARE DRIVEN BY TEMPERATURE INCREASE



>60° C SEAL PERMEABILITY DECREASES BY SEVERAL ORDERS OF MAGNITUDE, SLOWING NATURAL SEEPAGE AND INCREASING LIKELIHOOD OF OVERPRESSURE

PROBABILITY OF HYDRAULIC FRACTURING OF FORMATIONS INCREASES >60° C AND INCREASES DRAMATICALLY >90/100° C

GEOLOGICALLY, DEFINITION OF **HPHT** RESERVOIRS IS >120° C

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TREX-20124; TREN-20060; TREN-20126;
TREN-20093; TREN-20127; TREN-20098; TREN 20129,