

Aim

- Study of technical and economical feasibility of CO₂ injection for EOR/EGR and/or CO₂ storage in the Mereenie Field

Objectives

- Evaluate CO₂ EOR methods for improved oil and/or gas recovery
- Evaluate the CO₂ geological storage capacity of the Field from CO₂ EOR methods
- Cooptimise the EOR and CO₂ storage objectives to enable a transition to permanent CO₂ storage operations

Methodology

Compositional fluid modelling

MMP characterization and estimation

Reservoir modelling and simulation

Economic modelling

Optimisation

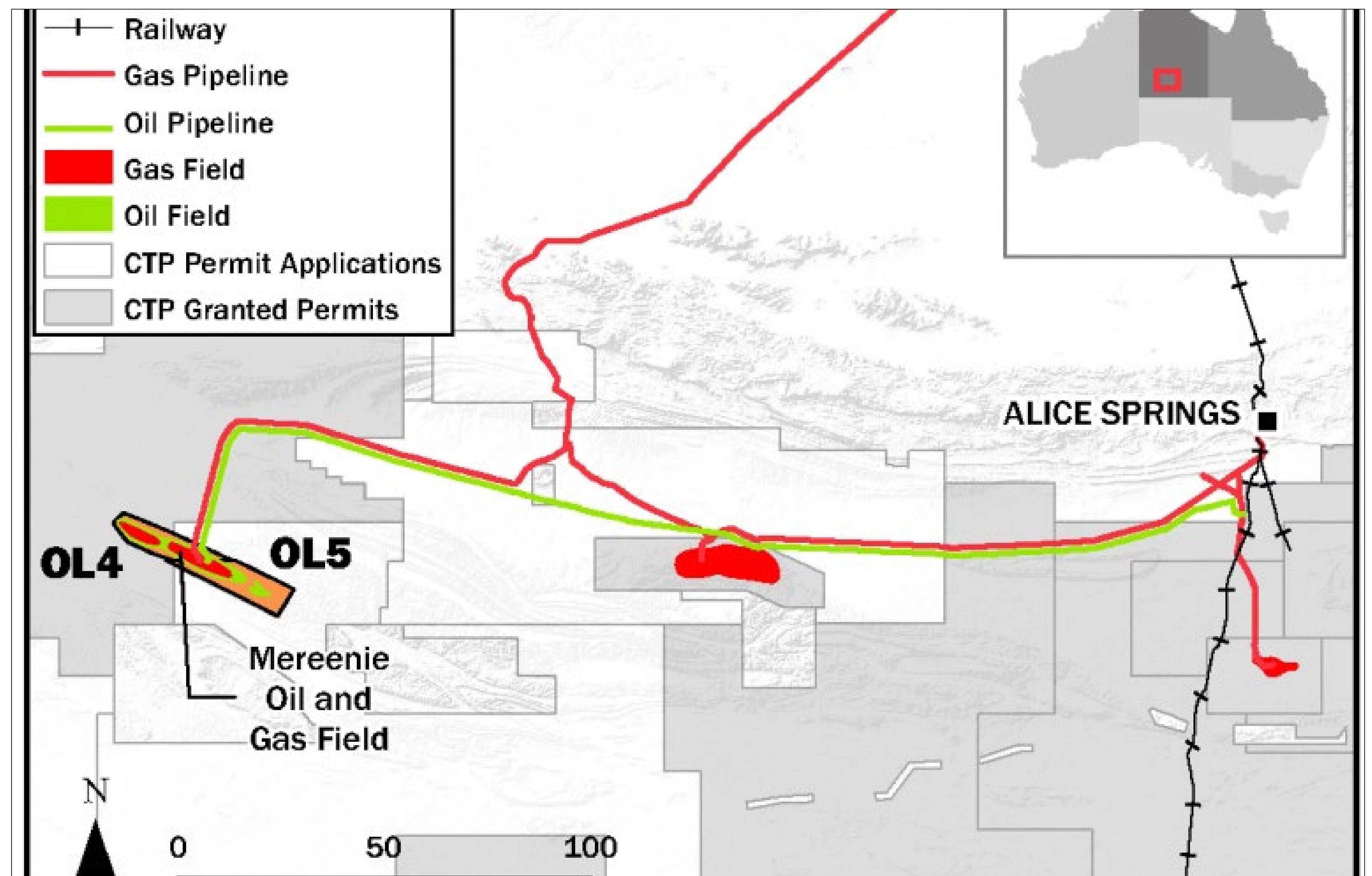


Figure 1: The Mereenie oil and gas field (Central Petroleum)

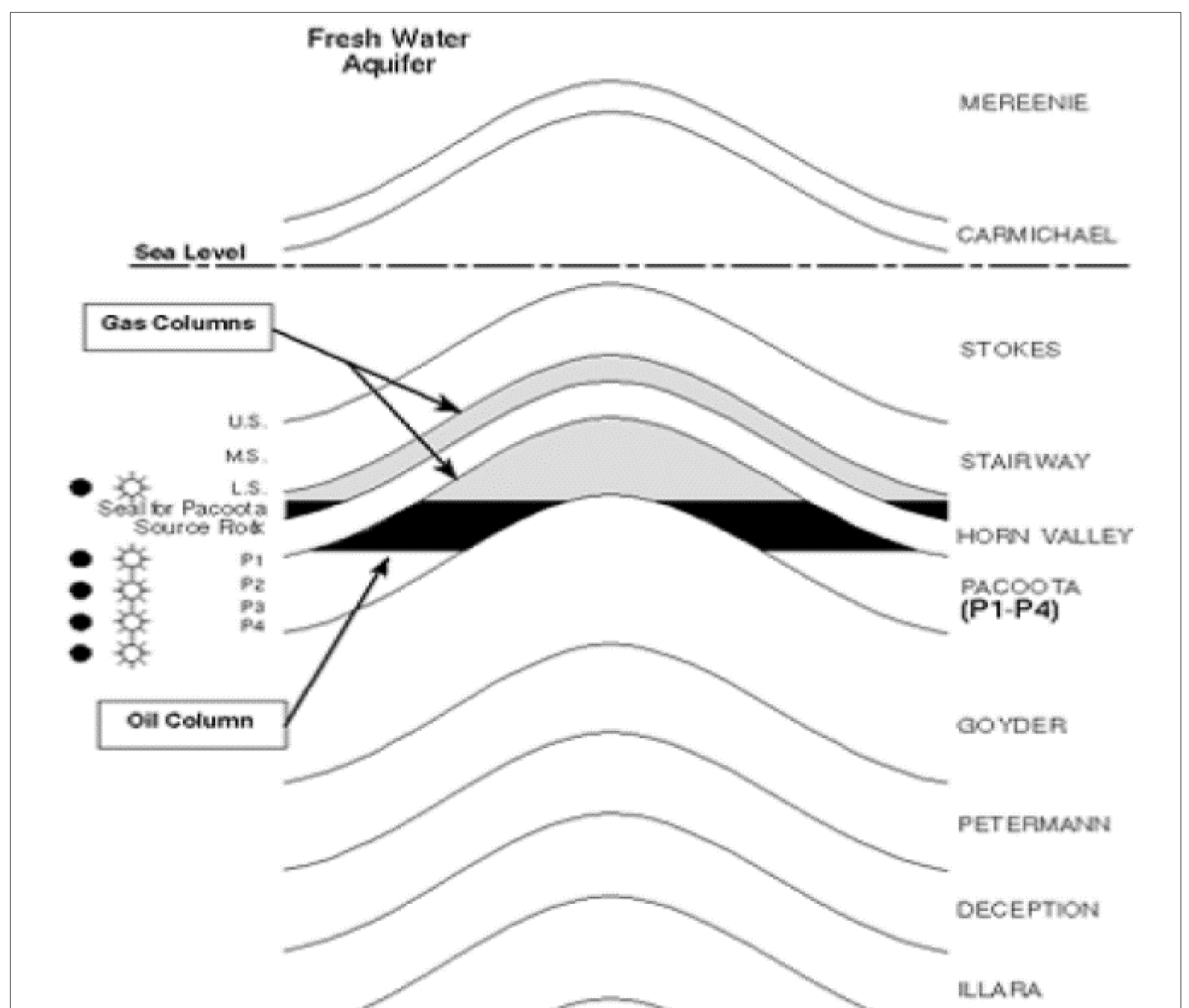


Figure 2: Schematic of the reservoir (Kabir et al., 1998)