

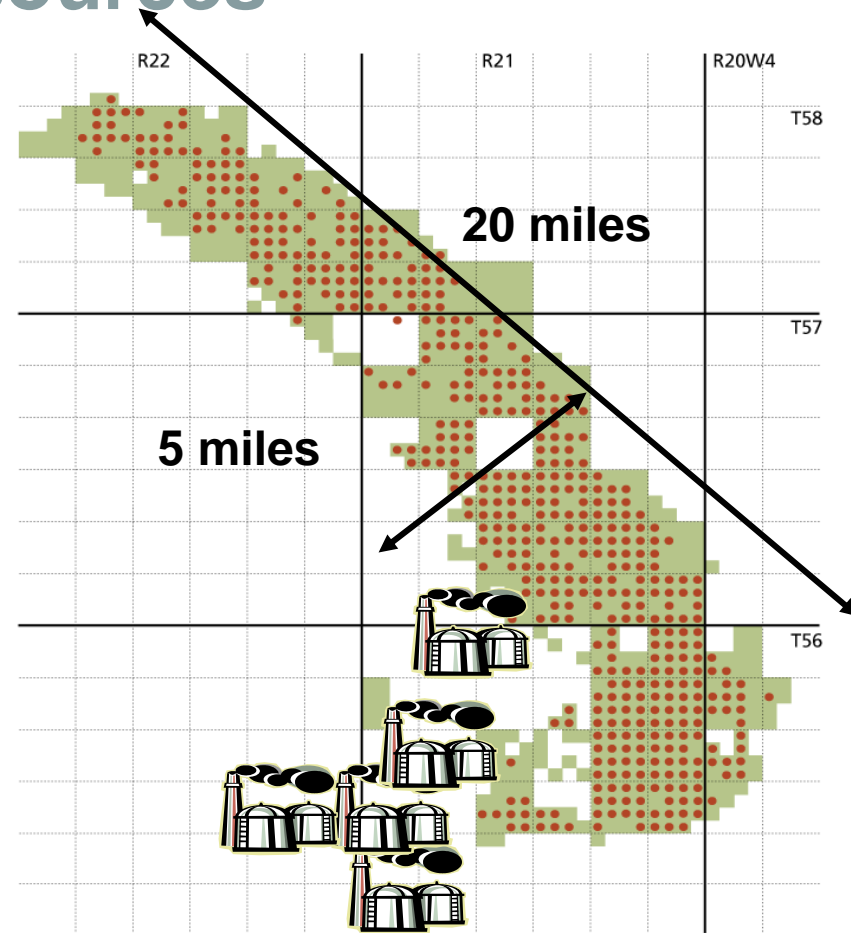
# ARC Energy Trust

## Redwater EOR and CCS

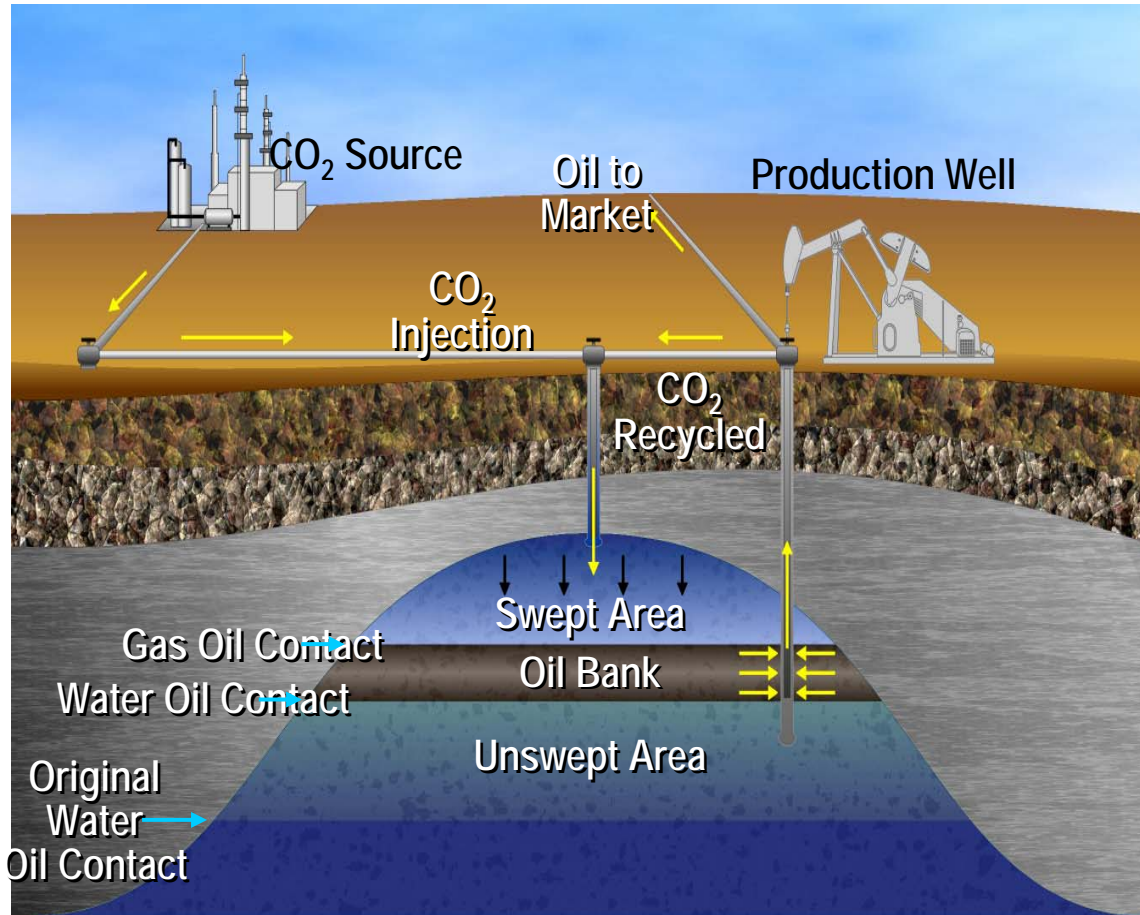
Cross-Border Forum on  
Energy Issues

March 6, 2008

# Redwater – Ideally located adjacent to major emission sources



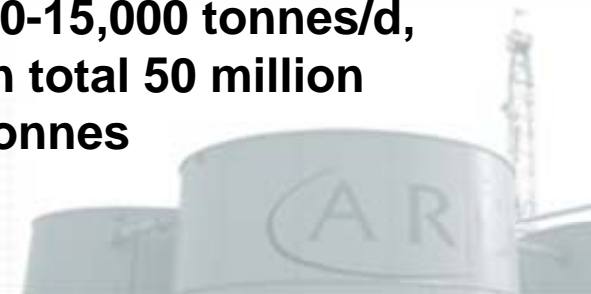
# Redwater – CO<sub>2</sub> Vertical Flood



- **CO<sub>2</sub> EOR Pilot commencing mid 2008 (\$25-30 million)**

- **Why? – Cost and Risk - Full field CO<sub>2</sub> EOR capital cost (\$600 million), overlife operating costs (\$1 billion), plus CO<sub>2</sub> costs (\$? billion)**

- **Sequestration potential large at 10-15,000 tonnes/d, in total 50 million tonnes**

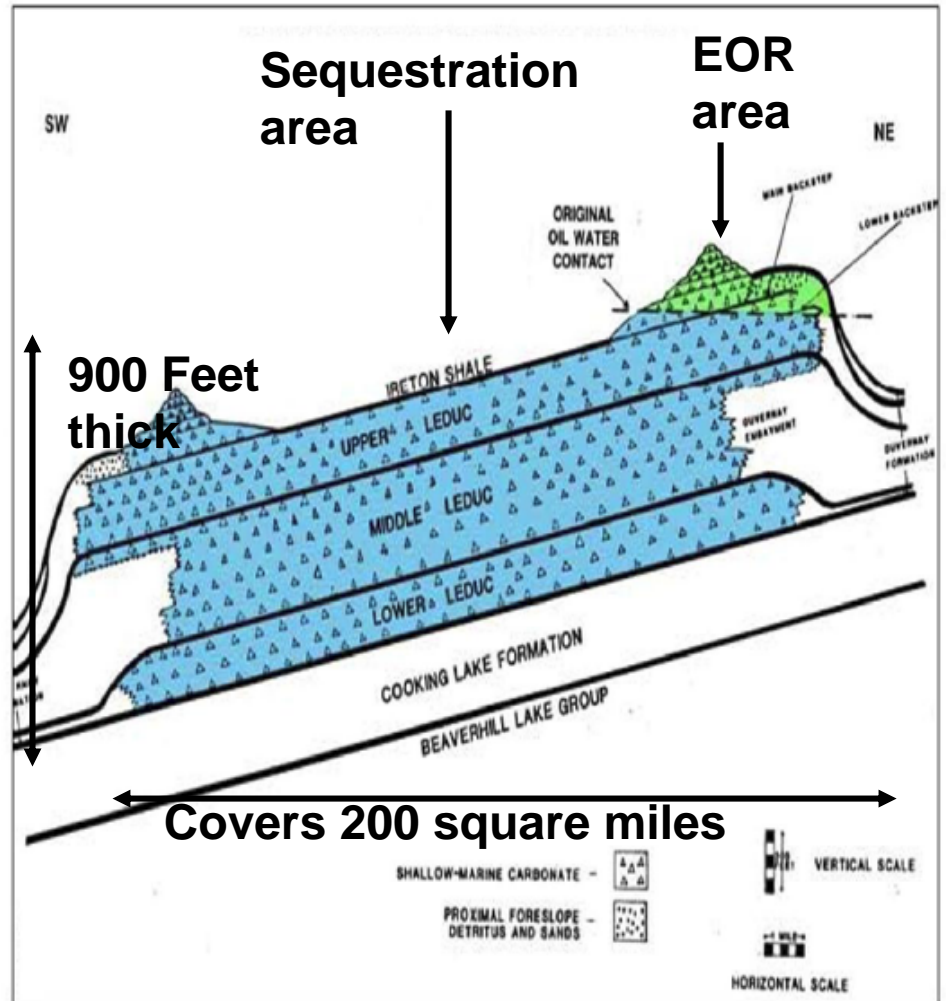




# Long-term Solution – Redwater Sequestration

- CO<sub>2</sub> EOR area and volume are large but dwarfed by potential of Sequestration area
- ARC has partnered with the Alberta Research Council and many others on a major project to study the ability of the Redwater reef to permanently store large quantities of CO<sub>2</sub> in a safe manner – we believe this one reef could hold over 1 gigatonne (one billion tonnes) which could handle existing and planned oil sands emissions for a period of 20 years

## Status of Sequestration and EOR at ARC



SCHEMATIC STRATIGRAPHIC CROSS SECTION ACROSS THE REDWATER REEF COMPLEX