

BPO PROJECT FACT SHEET

BACKGROUND

Primary and secondary recovery operations have been utilized for many years to extract oil from subsurface reservoirs. However, resources of more than 290 billion barrels of crude from known reservoirs remain unrecoverable with today's technology. To reduce dependency upon foreign source supplies, there is a need to develop oil production from these domestic oil sources. The need is great for techniques to overcome the problems associated with enhanced recovery in order to meet the energy demands of the immediate future. Therefore the importance of increasing the petroleum reserves of the United States through the production of oil left in petroleum reservoirs after abandonment following secondary recovery techniques is well known and well documented.

MAJOR ACCOMPLISHMENTS

- o Determined that the presence of aromatics and naphthenic components in the crude oil improve CO₂-oil miscibility.
- o Slim-tube displacement recoveries are not sensitive to the presence of water for that portion in solution.
- o Numerical models can be used to verify slim-tube experimental data.

MAJOR MILESTONES

- o Conduct Linear Displacement Experiments 06/83
- o Complete Mathematical Modeling Studies 08/83
- o Final report 03/85

ACTIVITY SCHEDULE

ACTIVITY	CY80	CY81	CY82	CY83	CY84	CY85	CY86	CY87	CY88	CY89	CY90
o Conduct Phase Behavior Studies	-----										
o Conduct Linear Displacement Experiments	-----										
o Complete Mathematical Modeling Studies	-----										
o Final Report											