

EORGAS

AN ENVIRONMENTALLY FRIENDLY AND ECONOMIC PROCESS FOR HEAVY OIL RECOVERY

EORGAS is a paradigm-shifting, patented¹ process for enhancing conventional and heavy oil recovery, having no CO₂ emissions, and simultaneously increasing your IRR.

The technology combines the physical chemical effects of CO₂ with the geochemical interactions of CO to mobilize asphaltenes and shrink swelling clays. It operates at low, immiscible pressures, and accesses tighter, bypassed zones.

EORGAS is produced onsite by burning petcoke with all CO₂/CO injected downhole for oil recovery and sequestration.

Recycling, and economic revitalization, of marginally economic old SAGD projects, and new heavy oil projects are suitable applications. Alternately the CO, individually, could be added to current heavy oil operations.

The EORGAS process can be modified so that H₂ can be readily separated from the CO₂/CO by a pressure swing adsorption process, recovered in pure form, and become a secondary income source.

Internal rates of return in excess of +22% are targeted. Lab and field pilot testing would be required to fine-tune the technology to maximize corporate profits.

Please refer to the MTARRI or EORGAS website, which includes our Society of Petroleum Engineers technical papers.

An existing USA licensee has initiated full field EORGAS operations on a conventional field.

¹ Patents issued and pending include U.S. Patent and Trademark Office issued Patent Nos 9,951,594. 10,316,631, and 10,876,384 plus Canadian Patent No. 2,939,516

We are interested in licensing the EORGAS technology to a suitable, large-scale producer in Canada. We believe the reduction in CO₂/CO emissions, improved recoveries, and possible recovery of H₂ offered by use of the EORGAS process can significant financial and environmental rewards. MTARRI would be pleased to assist in funding proof of concept for your heavy oil at a Canadian University. We would appreciate the opportunity to personally present this technology to your appropriate managerial, technical, or financial staff.

MTARRI, Inc. 1511 Washington Ave., Golden, CO 80401

Dr. Paul B. Trost, Geochemist, Pres. and CEO, pt@mtarri.com, 303-324 9496

Dr. Stuart Bennett, Director Strategic Planning, docstu1@gmail.com , 720-935 5513

Dr. John Wright, Petroleum Eng., jw@mtarri.com, 720-273 7039