



Presented By:

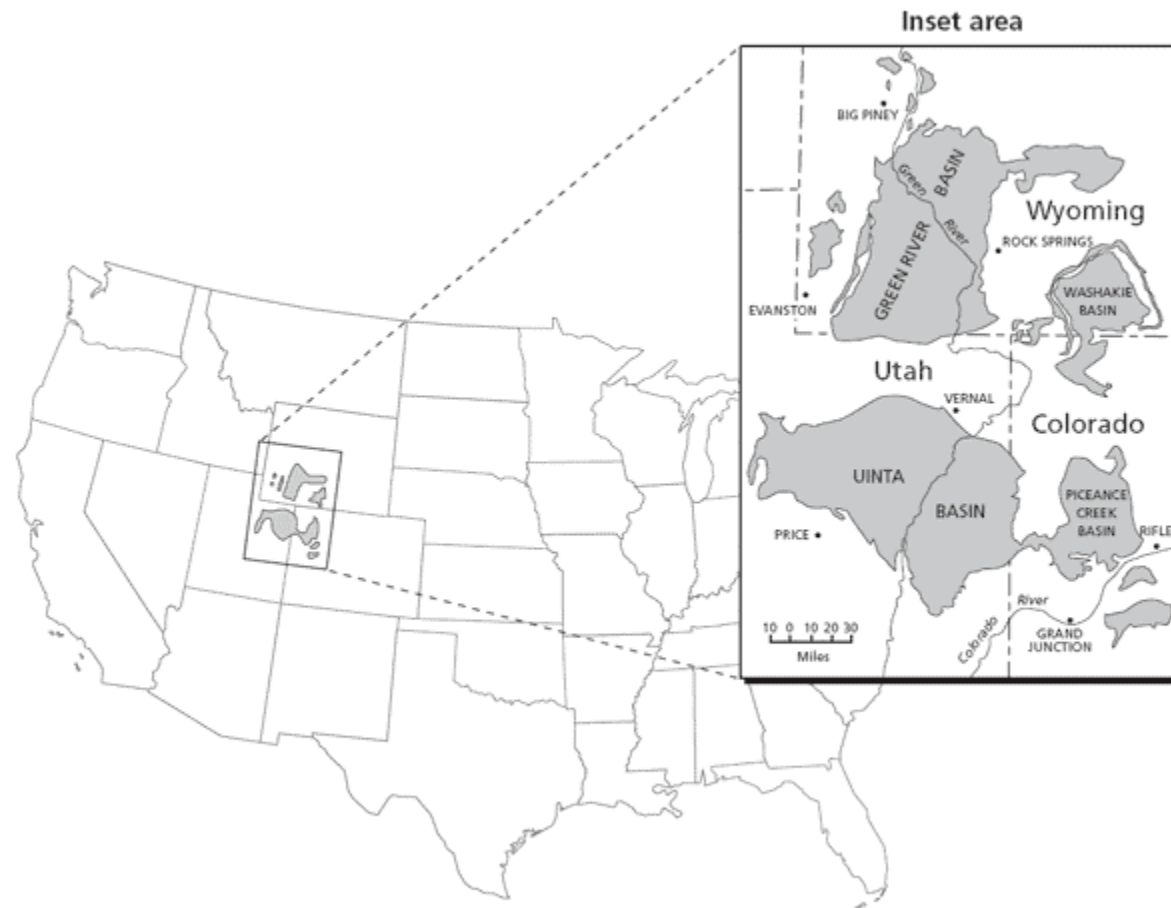
Dr. James Patten
CEO – Red Leaf Resources, Inc.

Todd Dana, Founder & Chairman
Dr. Laura Nelson, Vice President
Dr. James Bunger, JWBA Consultants

USA: Enormous Alternative Fuels Source

American Oil Shale

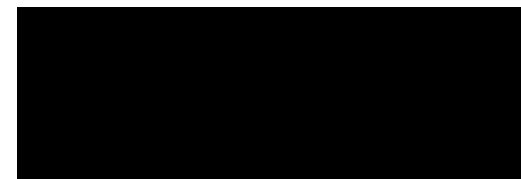
Location of the Green River Formation Oil Shale and Its Main Basins

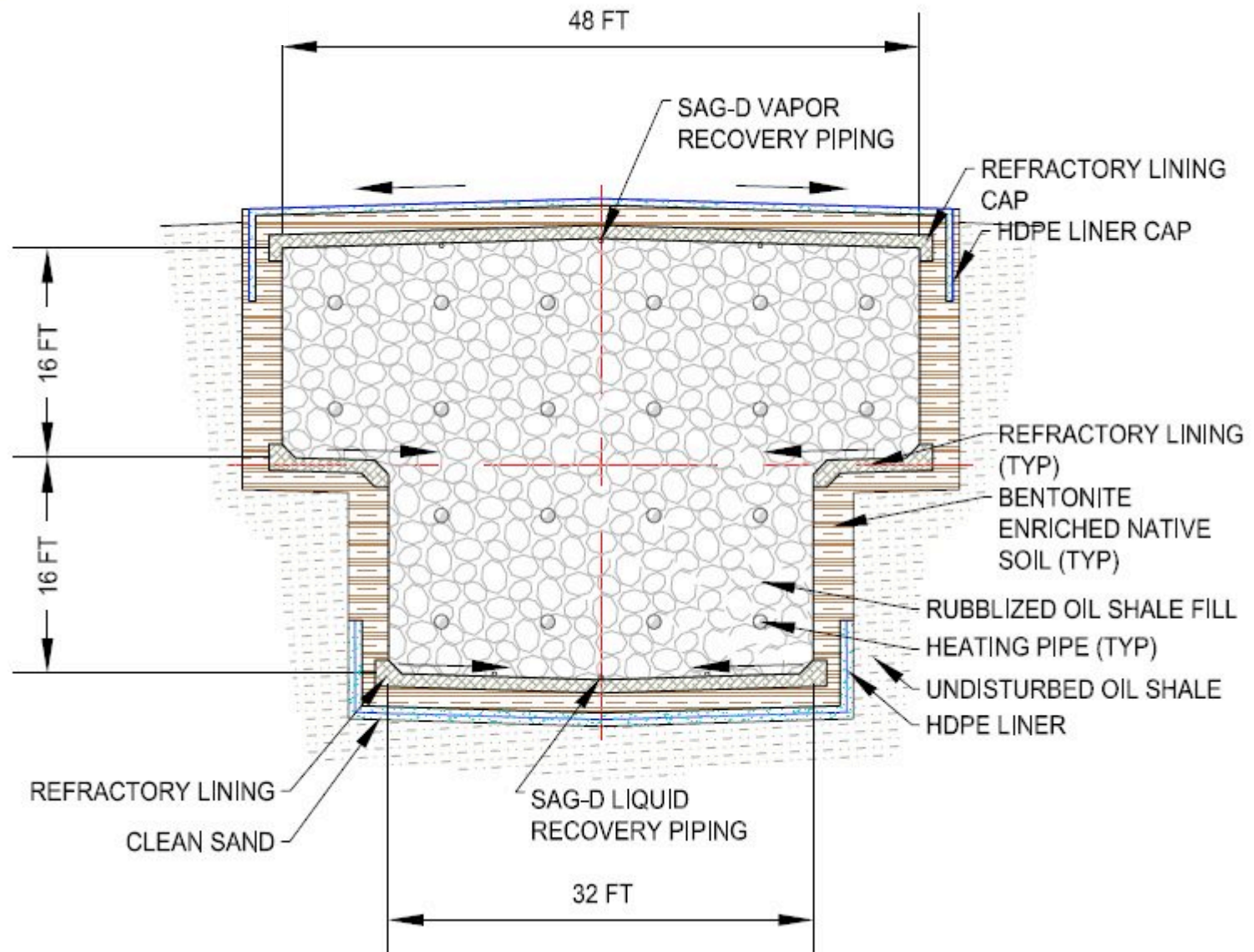


SOURCE: Adapted from Smith, 1980.

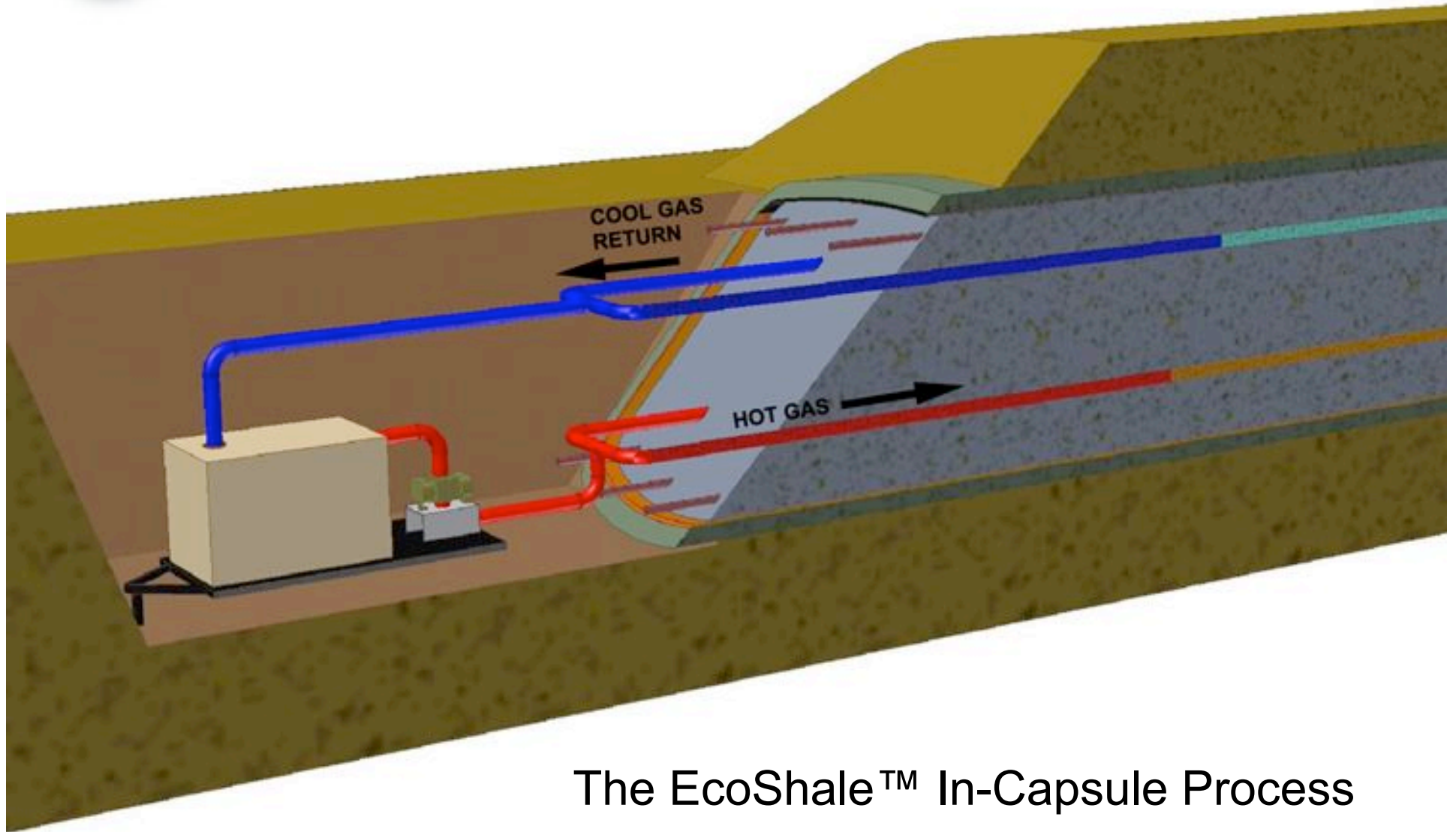
RAND MG414-2.1

Red Leaf controls oil shale property containing approximately **1.5 billion barrels of oil** in Utah – about 25,000 acres.



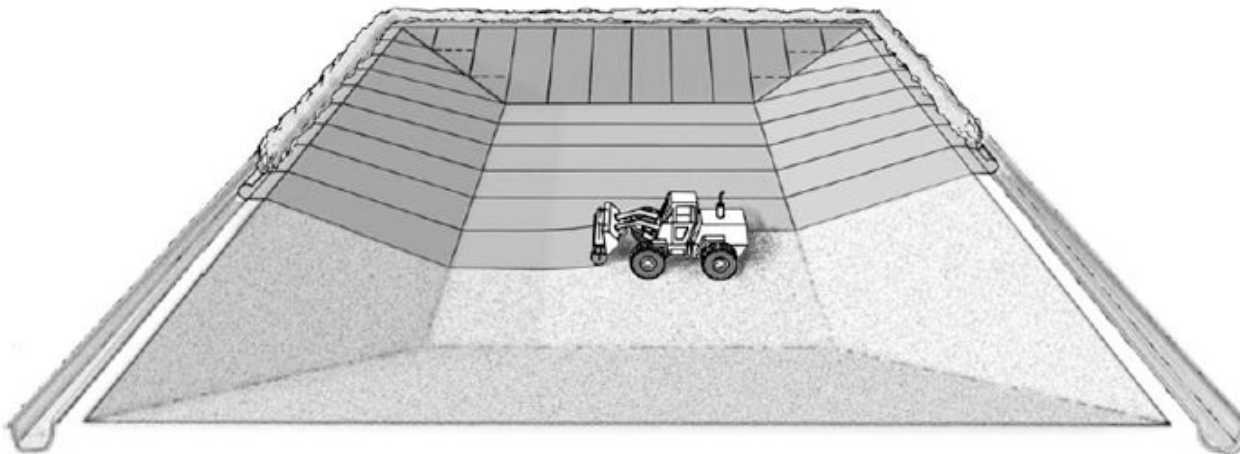


EcoShale™ In-Capsule Process



The EcoShale™ In-Capsule Process

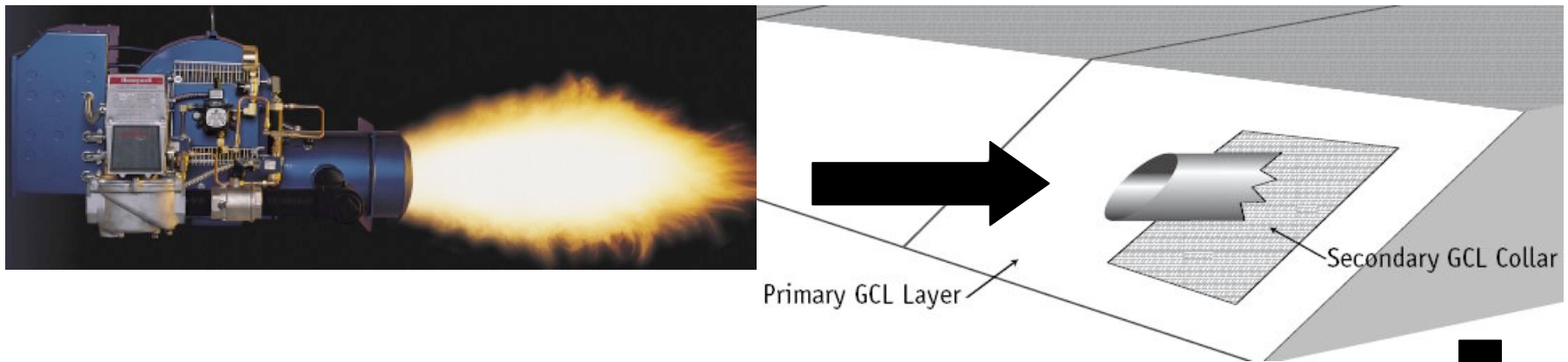
Step 1. Prepare the Capsule in quarry and add Bentonite permeability barrier



Step 2. Mine and place the ore



Step 3. Natural or process gas fires a burner to heat embedded pipes. Oil shale is produced.





High Quality Oil

- Lower Sulfur
- 35 – 40 API
- Bottomless
- Jet Fuel
- Naphtha
- Low Emission Diesel (ULSD)





Green River, Utah Refinery

- Rail Loading Facility for market access
- Future Upgrader Site



SOME FINAL THOUGHTS

- **ETHANOL WILL DISTURB 40 TIMES MORE LAND THAN OIL SHALE**
- **COSTS UNDER \$25 PER BARREL**
- **REDUCE CO₂ EMISSIONS BY OVER 2/3RDS OVER OLD RETORTS**

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