

**POST-1970 OIL SHALE RETORTS OPERATED  
IN THE UNITED STATES**

<u>Company</u>	<u>Process</u>	<u>Year Built</u>	<u>Size, Tons/Day</u>
Tosco	Rotary Kiln	1969	1,000
Paraho	Vertical Kiln	1974	250
IGT	Vertical Kiln	1974	24
SOSSI	Vertical Kiln	1977	24
Superior	Circular Grate	1977	250
Dravo	Circular Grate	1981	300
Allis-Chalmers	Roller Grate	1981	2
Tosco	Hot Solids	1981	8
Getty	Screw Mixer	1981	150
Gemini	Hot Oil Bath	1983	100
Rio Blanco	Screw Mixer	1983	5
Unocal	Upflow Kiln	1983	10,000
Exxon	Fluidized Bed	1984	5
LLNL	Hot Solids	1984	5
Chevron	Staged Fluid Bed	1984	350

Source: J.E. Sinor Consultants, Inc. (circa 2003)