

# AN ABSTRACT OF A THESIS

## PROCESS DESIGN MODEL OF AN EASTERN OIL SHALE RETORT

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Master of Science in Chemical Engineering

A mathematical model was developed for the Paraho oil shale retort operating on Eastern oil shale. The model described the following zones of the retort: shale preheating zone, retorting zone, gasification zone, and the lower heat exchange zone. The model included the overall material and energy balances plus chemical equilibria for the gasification zone. The principle items of interest were oil and gas yields, the amount of carbon gasified, and the amount of steam generated by waste heat recovery.

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EASTERN OIL SHALE RETORT

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A Thesis

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Yun Wang

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CERTIFICATE OF APPROVAL OF THESIS

PROCESS DESIGN MODEL OF AN  
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by

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