

18.14 **Oil shale processing by microwave retorting and analysis of generated shale oil**

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Microwave retorting is a non-traditional approach to producing oil from oil shale. We will present a discussion of the differences between shale oil produced from oil shale by microwave retorting and by more conventional retorting technologies. There are unique characteristics in the oils produced by microwave heating illustrated by three different standard oil assays: elemental analysis, simulated distillation, and hydrotreating trial.