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~~Oil Recovery~~  
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During thermal  
recovery, crude  
oil undergoes

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physical and chemical changes because of the effects of the heat supplied. Physical properties such as viscosity, specific gravity and interfacial tension are altered. The chemical changes involve

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different reactions such  
as cracking,

which is the  
destruction of  
carbon-carbon

bonds to  
generate lower  
molecular weight  
compounds, and

dehydrogenation,  
which is the  
rupture of

carbon-hydrogen

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*thermal recovery*  
- Schlumberger  
*Oilfield*  
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Enhanced oil  
recovery, also  
called tertiary  
recovery, is the  
extraction of  
crude oil from  
an oil field  
that cannot be

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extracted otherwise. EOR  
can extract 30%  
to 60% or more  
of a reservoir's  
oil, compared to  
20% to 40% using  
primary and  
secondary  
recovery.

According to the  
US Department of  
Energy, carbon  
dioxide and



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water are  
injected along  
with one of  
three EOR  
techniques:  
thermal  
injection, gas  
injection, and  
chemical  
injection. More  
advanced,  
speculative EOR  
techniques are  
sometimes called

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*Enhanced oil  
recovery -  
Wikipedia*

For over 90% of  
the vast  
resources of  
bitumen and  
heavy oil in  
Canada, in situ  
recovery  
processes have  
to be developed

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to produce and  
utilize them  
efficiently and  
economically.

Thermal recovery  
processes using  
steam, although  
effective for  
thick reservoirs  
with good  
quality sands,  
are increasingly  
proving to be  
uneconomical,

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particularly for  
thin, shaley, or  
bottom water  
reservoirs.

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of oil and  
bitumen (Book) |  
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Heat and steam  
comprise two of  
the thermal oil  
recovery  
methods. Using

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these methods enables the withdrawal of 30 to 60 percent of a reservoir's total oil reserves.

Thermal Oil Recovery. While chemical techniques account for only about one percent of

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enhanced US  
production, gas  
injection

comprises about  
60 percent and  
thermal recovery  
accounts for 40  
percent. Some  
production  
fields use more  
than one method,  
so the  
percentage  
equals greater

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than 100  
percent.  
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Current State  
and Future  
Prospects*  
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Recovery, crude

oil undergoes

physical and

chemical changes

because of the

effects of the

heat supplied.

Physical

properties such

as viscosity,

specific gravity

and interfacial

tension are

altered. The



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Recovery changes

involve

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different

reactions such

as cracking,

which is the

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recovery:

Underground

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hydrocarbons are ignited, which creates a flame front or heat barrier that pushes the oil toward the well.

- Recirculated gas drive:

Natural gas or carbon dioxide ( $\text{CO}_2$ ) is reinjected to mix with the

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underground oil, to free it from the reservoir rock. The gas is reclaimed and recirculated back into the reservoir until it is economically nonproductive (i.e., the recovery rate is marginal).

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Steam injection

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is an increasingly common method of extracting heavy crude oil. It is considered an enhanced oil recovery method and is the main type of thermal stimulation of oil reservoirs. There are several

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different forms of the technology, with the two main ones being Cyclic Steam Stimulation and Steam Flooding. Both are most commonly applied to oil reservoirs, which are relatively

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shallow and  
which contain  
crude oils which  
are very viscous  
at the  
temperature of  
the native  
underground  
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Describes the

recovery of

heavy oils and

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methods and...

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M. Butler ...*

■ Thermal methods of enhanced oil recovery entail the application of heat to the oil well. This acts to lower the viscosity of the oil and thus

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increase the  
mobility ratio.

■ Thermal EOR processes have the greatest certainty of success and application in about 70% of the EOR market globally.

*Enhanced Oil  
Recovery -*

*Page 39/50*

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*Cavitas Energy*

This is the  
classical book  
by late Dr.

Roger Butler

(father of SAGD)

on thermal

recovery of

heavy oil and

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book is very

good. Reservoir

engineers,

production



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engineers and

engineers who

are involved in

thermal enhanced

oil recovery

(EOR) projects

should own this

book. The book

is concise.

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*Roger M. . . .*

Thermal recovery involves heating up the

reservoir, thereby lowering the heavy oil's viscosity and enabling the oil to flow to the wellbore. The API gravity of heavy oil is usually  $< 20^\circ$ ,

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depending upon the reservoir, and viscosity is very high at reservoir temperature.

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