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of thermal recovery, emphasizing process selection. Details the reservoir engineering aspects of steamflooding, cyclic steam-injection processes, and forward in-situ combustion methods.

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Describes the recovery of heavy oils and bitumen by in situ thermal methods and discusses the technical factors and problems involved. The book summarizes, in a quantitative manner, techniques used in current petroleum industry practice.

Steam injection (oil

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industry) - Wikipedia

Bitumen

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 less than 20°, depending upon the reservoir, and viscosity is very high at reservoir temperature.

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Thermal Recovery of
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Roger M. Butler ...

This is the classical
book by late Dr. Roger
Butler (father of
SAGD) on thermal
recovery of heavy oil
and bitumen. This book
is very good. Reservoir
engineers, production
engineers and facilities
engineers who are

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involved in thermal enhanced oil recovery (EOR) projects should own this book.

Heavy and Thermal Oil Recovery Production Mechanisms ...

Conventional thermal recovery techniques are not cost-effective for many heavy oil reservoirs, due to unnecessary heat loss

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through the overburden
which can be reduced

through non-

conventional thermal
methods of either;

controlled heating of
the pay zone by

introducing heat to the
reservoir in a controlled

manner or Hybrid

SAGD and warm

VAPEX studied

combining the effects of
heat conduction ...

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Thermal methods of oil recovery (Book) | OSTI.GOV

The thermal energy used during thermal recovery lowers the oil viscosity, specific gravity, and interfacial tension, thereby Fig. 2 Kinematic viscosity of gas-free oils as a function of ...

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Thermal Recovery of
Oil and Bitumen:

Butler, Roger M ...

Increase in the oil
recovery of 8.8%, 3%,
and 5.5% are obtained
for the technology
assisted by the
nanocatalyst-based
nanofluid, after the
nitrogen injection, and
subsequent to the
thermal foam injection,
respectively. Analytical

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methods showed that the oil viscosity was reduced 79%, 77%, and 31%, in each case.

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Steam injection is an increasingly common method of extracting heavy crude oil. It is considered an enhanced oil recovery (EOR) method and is the main type of thermal stimulation of oil reservoirs. There are several different forms of the technology, with the two main ones being Cyclic Steam

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Flooding.

Enhanced oil recovery -
Wikipedia

Thermal recovery is a major branch of enhanced oil recovery processes and can be subdivided in two types: hot fluid injection such as steam injection (steamflood or cyclic steam injection) and

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hot waterflooding and
in-situ combustion
processes.

Thermal Recovery Of
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Thermal Oil Recovery
While chemical

techniques account for
only about one percent
of enhanced US
production , gas
injection comprises

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about 60 percent and thermal recovery accounts for 40 percent. Some production fields use more than one method, so the percentage equals greater than 100 percent.

How is Heavy Oil

Captured? -

Halliburton

The associated

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formation damage mechanisms with thermal recovery in heavy oil include: (1) migration of in-situ fines, kaolinite, detrital rock fragments, pyrobitumen, and other mobile particulates in clay-cemented clastic sandstones, and migration of dolomite or carbonate fines, and pyrobitumen in

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carbonate reservoirs
(Bennion et al., 1995);
(2) inevitably, large
amounts of sands
production ...

A Comprehensive
Review of Thermal
Enhanced Oil Recovery

...

Thermal recovery,
accomplished primarily
by injecting steam, is
the most successful

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enhanced oil recovery (EOR) process. This project furthered the application of steam injection by lending support to the technical case for thermal recovery from low-permeability fractured formations, such as diatomite.

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Introduction to
Enhanced Recovery
Methods for Heavy Oil

...

Tertiary is also referred to as EOR (enhanced oil recovery) which is accomplished via thermal and non-thermal means. When heavy oil reaches a certain weight, and secondary methods fail,

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non-thermal or thermal tertiary methods are employed. Non-thermal methods include microbial and CO₂ flooding. But heat—primarily via steamflooding—is the ...

Application Of Thermal Methods For Heavy Oil Recovery ...

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Bitumen. Thermal
Recovery of Oil and
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article, I will look
briefly at what the oil
sands are, how Heat,
pressure, and the
activity of bacteria
transformed the

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carbohydrates into hydrocarbons, and crude oil ...

thermal recovery -

Schlumberger Oilfield

Glossary

This book discusses

thermal oil recovery

methods: the

fundamentals of heat

and mass transfer in

porous media and the

physical and chemical

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changes in hydrocarbons subjected to thermal processes. Detailed chapters include the principles and applications of hot fluid injection and in situ combustion techniques.

Thermal Oil Recovery:
Current State and
Future Prospects
Enhanced oil recovery

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(abbreviated EOR), also called tertiary recovery, is the extraction of crude oil from an oil field that cannot be 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,

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carbon dioxide and water are injected along with one of three EOR techniques ...

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