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Solar Enhanced Oil Recovery 101

~~Micro Plate Heat Exchanger (MPHE)~~

~~How they work, working principle hvac~~

~~ϕh× Animation of Hydraulic Fracturing  
(fracking)~~

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Experiment: CO2 enhanced oil  
recovery (EOR) *Industrial Refrigeration*

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*System Basics - Ammonia refrigeration  
working principle Reversing valve -  
Heat Pump. How it works, Operation.  
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~~(EOR/EGR) Sondex Plate Heat~~  
~~Exchanger - Working Principles~~ ~~Water~~  
~~Flooding Concept~~ *Enhanced Oil*  
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Enhanced Oil Recovery Thermal

Flooding ~~Enhanced Oil Recovery~~

*Thermal Recovery Of Oil And*

During thermal recovery, crude oil

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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 chemical changes involve different reactions such as cracking, which is the destruction of carbon-carbon

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Bitumen generate lower molecular weight compounds, and dehydrogenation, which is the rupture of carbon-hydrogen bonds.

*thermal recovery - Schlumberger  
Oilfield Glossary*

Enhanced oil recovery, also called

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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, carbon dioxide

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Bitumen and 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 qu

*Enhanced oil recovery - Wikipedia*

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Bitumen For over 90% of the vast resources of bitumen and heavy oil in Canada, in situ recovery processes have to be developed to produce and utilize them efficiently and economically. Thermal recovery processes using steam, although effective for thick reservoirs with good quality sands, are

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Bitumen increasingly proving to be uneconomical, particularly for thin, shaley, or bottom water reservoirs.

*Thermal recovery of oil and bitumen  
(Book) | OSTI.GOV*

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 enhanced US production, gas injection comprises about 60 percent and thermal recovery accounts for 40



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percent. Some production fields use more than one method, so the percentage equals greater than 100 percent.

*Thermal Oil Recovery: Current State  
and Future Prospects*

Thermal Oil Recovery: Current State

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and Future Prospects During thermal 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 chemical changes involve different reactions such as cracking,

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- *securityseek.com*

Thermal recovery: Underground hydrocarbons are ignited, which creates a flame front or heat barrier that pushes the oil toward the well. •

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**Recirculated** gas drive: Natural gas or carbon dioxide (CO<sub>2</sub>) is reinjected to mix with the 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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*Thermal Recovery - an overview /  
ScienceDirect Topics*

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Steam injection is an increasingly common method of extracting heavy crude oil. It is considered an enhanced oil recovery method and is the main

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type of thermal stimulation of oil reservoirs. There are several 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 shallow and which contain crude oils which are

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Bitumen  
Very viscous at the temperature of the  
native underground forma

*Steam injection (oil industry) -  
Wikipedia*

Thermal Recovery of Oil and Bitumen.  
Roger M. Butler. Prentice Hall, 1991 -  
Bitumen. - 528 pages. 0 Reviews.

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Describes the recovery of heavy oils and bitumen by in situ thermal methods and...

*Thermal Recovery of Oil and Bitumen  
- Roger M. Butler ...*

? Thermal methods of enhanced oil recovery entail the application of heat

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to the oil well. This acts to lower the viscosity of the oil and thus 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 - Cavitas*

*Page 29/38*

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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 involved in thermal enhanced oil

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Bitumen (EOR) projects should own this book. The book is concise.

*Thermal Recovery of Oil and Bitumen:  
Butler, Roger M ...*

Thermal recovery involves heating up the reservoir, thereby lowering the heavy oil's viscosity and enabling the

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oil to flow to the wellbore. The API gravity of heavy oil is usually  $< 20^\circ$ , depending upon the reservoir, and viscosity is very high at reservoir temperature.

*Heavy Oil Recovery and Upgrading |  
ScienceDirect*



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This edition published in 1991 by  
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