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Industrial Workshop - June 27, 2017

Solar Enhanced Oil Recovery 101

~~Micro Plate Heat Exchanger (MPHE)~~

~~How they work, working principle hvac~~

~~Animation of Hydraulic Fracturing
(fracking)~~

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.
Enhanced Oil and Gas Recovery
(EOR/EGR) Sondex Plate Heat
Exchanger - Working Principles Water
Flooding Concept Enhanced Oil
Recovery Enhance Oil Recovery :*

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Chemical Flooding HVAC Heat Exchangers Explained The basics working principle how heat exchanger works Plate Heat Exchanger, How it works - working principle hvac industrial engineering phx heat transfer Enhance Oil Recovery | Thermal Process Dr. Stephen Leeb:

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The New Monetary Reserve System
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Works Vacuum Pumps Explained
Basic working principle HVAC

Enhanced Oil Recovery Thermal
Flooding ~~Enhanced Oil Recovery~~
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During thermal recovery, crude oil

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Distillation 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 to 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

Page 13/60

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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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Bitumen
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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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 (CO₂) 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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Thermal Recovery Of Oil And Bitumen
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 29/60

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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
Prentice Hall in Englewood Cliffs, N.J.

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Englewood Cliffs, N.J. : Prentice Hall,
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and explore how we can help make your workplace safer, more efficient, and more productive, contact us ...

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

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Methods and discusses the technical factors and problems involved. The book summarizes, in a quantitative manner, techniques used in current petroleum industry practice.

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Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery, including methods used in emerging unconventional reservoirs. Going

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Beyond traditional secondary methods, this reference includes advanced water-based EOR methods which are becoming more popular due to CO₂ injection methods used in EOR and methods specific to target shale oil and gas activity. Rounding out with a chapter devoted to optimizing the

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Application and economy of EOR methods, the book brings reservoir and petroleum engineers up-to-speed on the latest studies to apply.

Enhanced oil recovery continues to grow in technology, and with ongoing unconventional reservoir activity underway, enhanced oil recovery

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Methods of many kinds will continue to gain in studies and scientific advancements. Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go-to reference. Explains enhanced oil recovery methods, focusing specifically on those used for

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Unconventional reservoirs Includes
real-world case studies and examples
to further illustrate points Creates a
practical and theoretical foundation
with multiple contributors from various
backgrounds Includes a full range of
the latest and future methods for
enhanced oil recovery, including

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Chemical, waterflooding, CO₂ injection
and thermal

Introduction to Enhanced Recovery

Page 44/60

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Methods for Heavy Oil and Tar Sands, Second Edition, explores the importance of enhanced oil recovery (EOR) and how it has grown in recent years thanks to the increased need to locate unconventional resources such as heavy oil and shale. Unfortunately, petroleum engineers and managers

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aren't always well-versed in the enhancement methods that are available when needed or the most economically viable solution to maximize their reservoir's productivity. This revised new edition presents all the current methods of recovery available, including the pros and cons

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of each. Expanded and updated as a great preliminary text for the newcomer to the industry or subject matter, this must-have EOR guide teaches all the basics needed, including all thermal and non-thermal methods, along with discussions of viscosity, sampling, and the

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Technologies surrounding offshore applications. Enables users to quickly learn how to choose the most efficient recovery method for their reservoir while evaluating economic conditions. Presents the differences between each method of recovery with newly added real-world case studies from

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Bitumen
around the world Helps readers stay competitive with the growing need of extracting unconventional resources with new content on how these complex reservoirs interact with injected reservoir fluids

Commercial application of chemical

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Enhanced oil recovery (cEOR) processes is expected to grow significantly over the next decade. Thus, Chemical Enhanced Oil Recovery (cEOR): A Practical Overview offers key knowledge and understanding of cEOR processes using an evidence-based approach

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intended for a broad audience ranging from field operators, researchers, to reservoir engineers dealing with the development and planning of cEOR field applications. This book is structured into three sections; the first section surveys overall EOR processes. The second section

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Bitumen focuses on cEOR processes, while the final section describes the electrorheology technology. These sections are presented using a practical and realistic approach tailored for readers looking to improve their knowledge and understanding of cEOR processes in a nutshell.

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Hybrid Enhanced Oil Recovery Using Smart Waterflooding explains the latest technologies used in the integration of low-salinity and smart waterflooding in other EOR processes to reduce risks attributed to numerous difficulties in existing technologies,

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Bitumen also introducing the synergetic effects. Covering both lab and field work and the challenges ahead, the book delivers a cutting-edge product for today's reservoir engineers. Explains how smart waterflooding is beneficial to each EOR process, such as miscible, chemical and thermal

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Discusses the mechanics and modeling involved using geochemistry Provides extensive tools, such as reservoir simulations through experiments and field tests, establishing a bridge between theory and practice

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Oil Recovery in Shale and Tight Reservoirs delivers a current, state-of-the-art resource for engineers trying to manage unconventional hydrocarbon resources. Going beyond the traditional EOR methods, this book helps readers solve key challenges on the proper methods, technologies and

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Options available. Engineers and researchers will find a systematic list of methods and applications, including gas and water injection, methods to improve liquid recovery, as well as spontaneous and forced imbibition. Rounding out with additional methods, such as air foam drive and energized

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fluids, this book gives engineers the knowledge they need to tackle the most complex oil and gas assets. Helps readers understand the methods and mechanisms for enhanced oil recovery technology, specifically for shale and tight oil reservoirs Includes available EOR

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Methods, along with recent practical case studies that cover topics like fracturing fluid flow back Teaches additional methods, such as soaking after fracturing, thermal recovery and microbial EOR

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