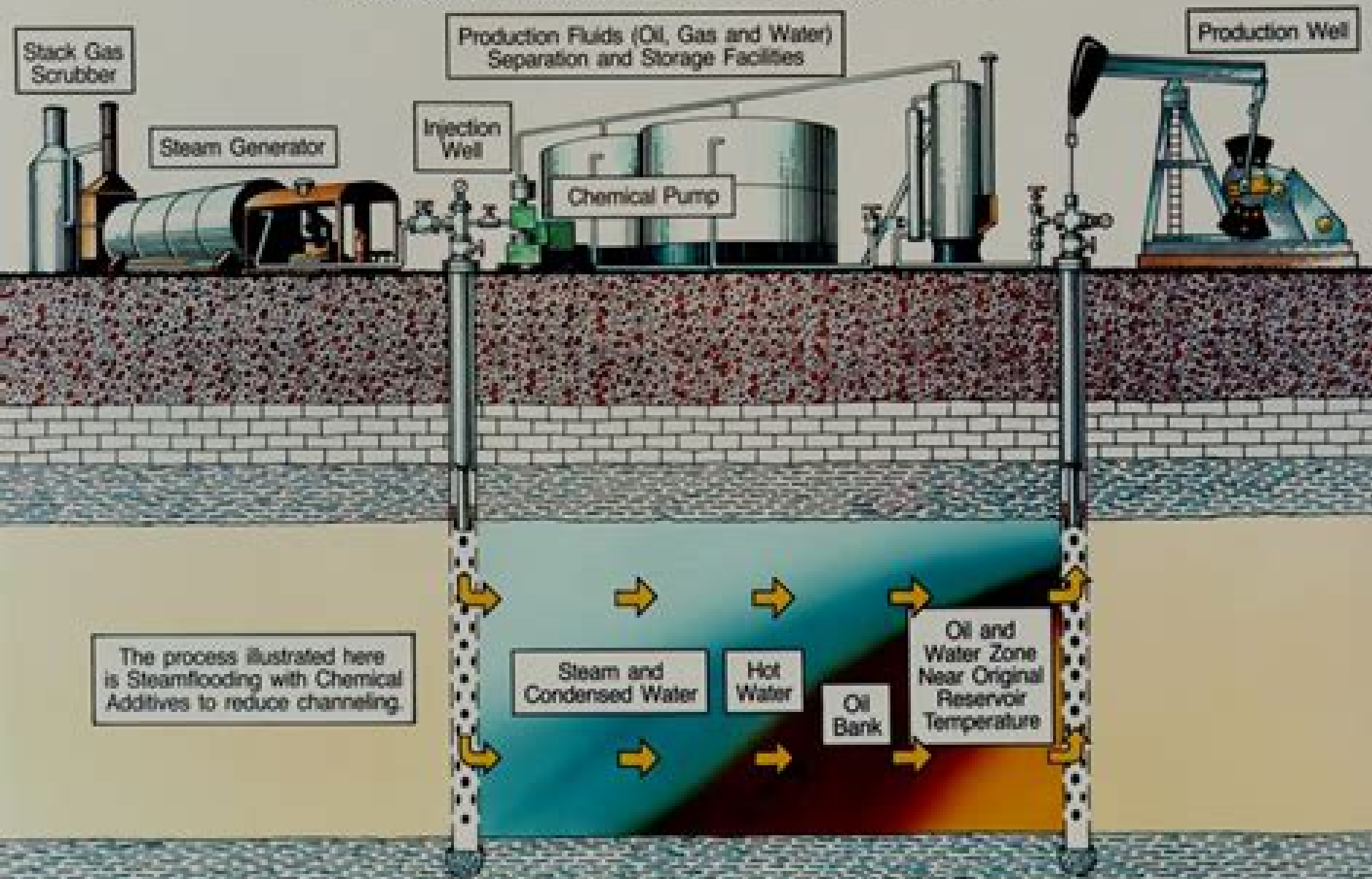


# THERMAL RECOVERY

This is accomplished either by hot fluid injection (hot water or steam) or *in situ* combustion (burning a part of the crude oil in place). Variations of these methods improve production of crudes by heating them, thereby improving their mobility and ease of recovery by fluid injection.



# Steamflood Reservoir Management Thermal Enhanced Oil Recovery Includes Solutions Manual Insert

**Taofik Nassan**



## **Steamflood Reservoir Management Thermal Enhanced Oil Recovery Includes Solutions Manual Insert:**

Steamflood Reservoir Management K. C. Hong, 1994      List of BETC Publications Bartlesville Energy Technology Center, 1977      *Thermal Processes for Heavy Oil Recovery* National Institute for Petroleum and Energy Research (Bartlesville, Okla.), A. K. Sarkar, P. S. Sarathi, 1993      **Thermal Processes for Heavy Oil Recovery**, 1993 This status report summarizes the project BE11B Thermal Processes for Heavy Oil Recovery research activities conducted in FY93 and completes milestone 7 of this project A major portion of project research during FY93 was concentrated on modeling and reservoir studies to determine the applicability of steam injection oil recovery techniques in Texas Gulf Coast heavy oil reservoirs In addition an in depth evaluation of a steamflood predictive model developed by Mobil Exploration and Production Co Mobil E P was performed Details of these two studies are presented A topical report NIPER 675 assessing the NIPER Thermal EOR Research Program over the past 10 years was also written during this fiscal year and delivered to DOE Results of the Gulf Coast heavy oil reservoir simulation studies indicated that though these reservoirs can be successfully steamflooded and could recover more than 50% of oil in place steamflooding may not be economical at current heavy oil prices Assessment of Mobil E P s steamflood predictive model capabilities indicate that the model in its present form gives reasonably good predictions of California steam projects but fails to predict adequately the performance of non California steam projects      Enhanced Oil Recovery M. M. Schumacher, 1978      **Enhanced Oil Recovery** Marcel Latil, 1980

**Enhanced Oil Recovery Field Case Studies** James J. Sheng, 2013-04-10 This chapter first reviews thermal properties of rock and fluids and related energy concepts The fundamentals of heat transfer and heat loss theories to estimate the heated area and oil recovery performance are briefly presented The mechanisms and screening criteria of steam flooding are discussed After the general practice in steam flooding projects is discussed field cases are presented which include Kern River in California Duri steam flood in Indonesia West Coalinga Field in California Karamay Field and the Qi 40 block in Laohe China      *Enhanced Oil Recovery Using Flash-driven Steamflooding*, 1990 The present invention is directed to a novel steamflooding process which utilizes three specific stages of steam injection for enhanced oil recovery The three stages are as follows As steam is being injected into an oil bearing reservoir through an injection well the production rate of a production well located at a distance from the injection well is gradually restricted to a point that the pressure in the reservoir increases at a predetermined rate to a predetermined maximum value After the maximum pressure has been reached the production rate is increased to a value such that the predetermined maximum pressure value is maintained Production at maximum pressure is continued for a length of time that will be unique for each individual reservoir In some cases this step of the steamflooding process of the invention may be omitted entirely In the third stage of the steamflooding process of the invention production rates at the producing well are increased gradually to allow the pressure to decrease down from the maximum pressure value to the original pressure value at the producing well The rate of pressure reduction

will be unique for each reservoir After completing stage three the three stages can be repeated or the steamflood may be terminated as considered desirable

**Transformation of Resources to Reserves**, 2007 This final report and technical progress report describes work performed from October 1 2004 through September 30 2007 for the project Transformation of Resources to Reserves Next Generation Heavy Oil Recovery Techniques DE FC26 04NT15526 Critical year 3 activities of this project were not undertaken because of reduced funding to the DOE Oil Program despite timely submission of a continuation package and progress on year 1 and 2 subtasks A small amount of carried over funds were used during June August 2007 to complete some work in the area of foamed gas mobility control Completion of Year 3 activities and tasks would have led to a more thorough completion of the project and attainment of project goals This progress report serves as a summary of activities and accomplishments for years 1 and 2 Experiments theory development and numerical modeling were employed to elucidate heavy oil production mechanisms that provide the technical foundations for producing efficiently the abundant discovered heavy oil resources of the U S that are not accessible with current technology and recovery techniques Work fell into two task areas cold production of heavy oils and thermal recovery Despite the emerging critical importance of the waterflooding of viscous oil in cold environments work in this area was never sanctioned under this project It is envisioned that heavy oil production is impacted by development of an understanding of the reservoir and reservoir fluid conditions leading to so called foamy oil behavior i e heavy oil solution gas drive This understanding should allow primary cold production of heavy and viscous oils to be optimized Accordingly we evaluated the oil phase chemistry of crude oil samples from Venezuela that give effective production by the heavy oil solution gas drive mechanism Laboratory scale experiments show that recovery correlates with asphaltene contents as well as the so called acid number AN and base number BN of the crude oil A significant number of laboratory scale tests were made to evaluate the solution gas drive potential of West Sak AK viscous oil The West Sak sample has a low acid number low asphaltene content and does not appear foamy under laboratory conditions Tests show primary recovery of about 22% of the original oil in place under a variety of conditions The acid number of other Alaskan North Slope samples tests is greater indicating a greater potential for recovery by heavy oil solution gas drive Effective cold production leads to reservoir pressure depletion that eases the implementation of thermal recovery processes When viewed from a reservoir perspective thermal recovery is the enhanced recovery method of choice for viscous and heavy oils because of the significant viscosity reduction that accompanies the heating of oil One significant issue accompanying thermal recovery in cold environments is wellbore heat losses Initial work on thermal recovery found that a technology base for delivering steam other hot fluids and electrical heat through cold subsurface environments such as permafrost was in place No commercially available technologies are available however Nevertheless the enabling technology of superinsulated wells appears to be realized Thermal subtasks focused on a suite of enhanced recovery options tailored to various reservoir conditions Generally electrothermal conventional steam based and thermal

gravity drainage enhanced oil recovery techniques appear to be applicable to prime Ugnu reservoir conditions to the extent that reservoir architecture and fluid conditions are modeled faithfully here. The extent of reservoir layering, vertical communication and subsurface steam distribution are important factors affecting recovery. Distribution of steam throughout reservoir volume is a significant issue facing thermal recovery. Various activities addressed aspects of steam emplacement. Notably, hydraulic fracturing of horizontal steam injection wells and implementation of steam trap control that limits steam entry into horizontal production wells overcomes many of the problems associated with implementation of thermal gravity drainage processes in heterogeneous sands. In a steam assisted gravity drainage (SAGD) well pattern, hydraulically fractured injectors were able to achieve significantly improved reservoir heating and improvements to oil:steam ratio. On the opposite side of the steam injection spectrum, steam often channels through high permeability zones. Foamed steam, stabilized by aqueous surfactants, is promising to alter steam flow but has yet to be tested and simulated under SAGD conditions. The mechanistic population balance method for describing foam flow was extended to a local equilibrium framework that reduces computational costs and is promising for simulation of the effects of foamed steam in 3D.

**Supporting Technology for Enhanced Oil Recovery - Steamflood Predictive Model** United States. Department of Energy, 1986

**Modification of Reservoir Chemical and Physical Factors in Steamfloods to Increase Heavy Oil Recovery**, 1996

Thermal methods and particularly steam injection are currently recognized as the most promising for the efficient recovery of heavy oil. Despite significant progress, however, important technical issues remain open. Specifically, still inadequate is our knowledge of the complex interaction between porous media and the various fluids of thermal recovery: steam, water, heavy oil, gases, and chemicals. While the interplay of heat transfer and fluid flow with pore and macro scale heterogeneity is largely unexplored, the objectives of this contract are to continue previous work and to carry out new fundamental studies in the following areas of interest to thermal recovery: displacement and flow properties of fluids involving phase change; condensation; evaporation in porous media; flow properties of mobility control fluids such as foam; and the effect of reservoir heterogeneity on thermal recovery. The specific projects are motivated by and address the need to improve heavy oil recovery from typical reservoirs as well as less conventional fractured reservoirs producing from vertical or horizontal wells. During this past quarter, work continued on the development of relative permeabilities during steam displacement; the optimization of recovery processes in heterogeneous reservoirs by using optical control methods; and in the area of chemical additives, work continued on the behavior of non-Newtonian fluid flow and on foam displacements in porous media.

*Chemical Enhanced Oil Recovery Handbook* Eduardo Manrique, Vladimir Alvarado, 2016-10-01

*Chemical Enhanced Oil Recovery Handbook: Screening, Formulation, and Implementation* offers engineers a platform to discover the latest strategies and technologies for maximizing the ultimate recovery factor from operating fields. This comprehensive handbook, based on years of field experience, provides engineers with the methods, tools, and techniques needed to successfully plan, evaluate, manage, and

complete an enhanced oil recovery project The book features a clear and rigorous exposition of theory sections concerning real world applications and a password protected website The handbook illustrates the EOR decision making workflow using field case examples from several countries Assets evaluated include reservoir types ranging from oil sands to condensate reservoirs Different stages of development and information availability are discussed Results show the advantage of a flexible decision making workflow This approach combines geologic and engineering data minimizing experts bias and also combines technical and financial figures The proposed methodology has proved useful to evaluating projects and properties very rapidly to identify when upside potential exists Other topics covered include chemical injection gas injection ultrasonic stimulation equipment and process microbial injection thermal recovery and carbon dioxide enhanced oil recovery Each topic is accompanied by a description of the equipment and processes case studies and modeling methods Features the latest case studies from Asia Canada Mexico South America and the United States Evaluates assets including reservoir types ranging from oil sands to condensate reservoirs Discusses different stages of development and information availability Provides preliminary analytical simulations to estimate oil recovery potential Includes step by step modeling techniques for each method

**Analysis of Steamflood Oil Recovery in a Light Oil Reservoir** Nuntasak Chenboonthai,1996 Optimization of Steam Assisted Gravity Drainage, Electrical Joule's Heating, and Thermal-chemical Processes for Heavy Oil Reservoirs Elif Ozdingis,2016 Thermal enhanced oil recovery techniques have been considered as the best approach to produce heavy oil however not all thermal methods are appropriate or effective for oil production from every heavy oil reservoir Therefore this research study aims to investigate how reservoir and operational parameters affect certain thermal enhanced oil recovery methods steam assisted gravity drainage and low frequency electrical heating and a hybrid thermal chemical process method which combines low frequency electrical heating with hot water and alkaline co solvent polymer injection In this master s thesis a compositional reservoir simulator UTCHEM was used to build the base case reservoir models UTCHEM is a three dimensional multicomponent multiphase reservoir simulator which is mainly utilized to model chemical flooding processes Besides modeling many features of chemical floods the simulator can also handle complex phase behavior heterogeneous porous medium properties In this study a modified version of UTCHEM which includes a thermal module to model thermal recovery processes was used to design steam assisted gravity drainage low frequency electrical heating and hot water flooding periods and a geochemical module of UTCHEM was used for simulating chemical flooding part Simulation results showed that a considerable increase in oil recovery is obtained when multiple SAGD well pairs are used It is also observed that steam injection rate and heat loss have a significant influence on the steam assisted gravity drainage process On the other hand heat loss does not affect low frequency electrical heating method It is deduced that low frequency electrical heating technique is not economically feasible and not very efficient to heat the reservoir Therefore low frequency electrical heating method can be used as a preheating application to lower the oil viscosity and in turn increase the injectivity in high

viscous oil reservoirs Finally simulation results revealed that in the thermal chemical process at the end of chemical flood the amount of oil recovered is 80% of original oil in place OOIP where the oil recovery is only around 5% after hot water flooding Thus combining reservoir pre heating and chemical enhanced oil recovery methods has the potential to become a promising oil recovery method for heavy oil reservoirs □□□□□□ □,1996 Steamflood reservoir management thermal enhanced oil recovery

**Knowledge-based Simulation System for Thermal Enhanced Oil Recovery Using Steam** Ibrahim Palaz,1989 **Thermal Methods of Oil Recovery** Jacques Burger,Pierre Sourieau,Michel Combarnous,1985

*High-viscosity Oil Fields* Valentin I. Kudinov,1996 **Application of thermal methods to enhanced oil recovery: Numerical and experimental investigations** Taofik Nassan,2024-12-05 Reservoir simulation is a powerful tool to model fluid flow within oil and gas reservoirs and predict their behaviour This dissertation is devoted primarily to model some thermal enhanced oil recovery TEOR methods Two software were used for this purpose and namely Comsol Multiphysics and CMG Computer Modelling Group The dissertation can be classified into three parts and all of them are standalone that discuss different topics within TEOR The work starts with reviewing enhanced oil recovery EOR methods with concentration on thermal methods TEOR for heavy oil and bitumen Basics of mathematical modelling of single two phase and three phase flow in porous media that is the base of all commercial and scientific reservoir simulation software are reviewed Formulations of the set of representative PDEs are reviewed and other formulations are suggested and applied directly in subsequent sections in Comsol Multiphysics Part 1 The application of finite element method FEM in reservoir simulation has been discussed and evaluated using Comsol Multiphysics package which is based on Galerkin approach In the demonstrated problems the mathematical model is solved using mathematics module in Comsol Multiphysics Energy equation in 1D Buckley Leverett benchmark two phase flow model on inverted 5 spot scheme in 3D and SAGD process PDE model are all solved and discussed FEM using Comsol Multiphysics looks promising at moderate mobility ratios Part 2 A comparison of water flooding with steam injection in heavy oil reservoirs as secondary stage is demonstrated and discussed The whole modelling was achieved by CMG STARS A comparison of five different scenarios is shown SPE4 comparative project data were used for this purpose The results showed that steam can achieve more recovery in a short period of time with an ultimate recovery factor higher than cold recovery followed by steam flooding process Part 3 A series of flooding and in situ combustion experimental work that has been achieved in Kazan Federal University in cooperation with Institute of Drilling Engineering and Fluid Mining IBF is elaborated briefly and discussed Four experiments with different core samples consolidated and unconsolidated were run between 05 2020 and 05 2021 The samples were taken from a Russian extra heavy oilfield with initial viscosity around 600 000 cP The results were evaluated and a numerical model was built using CMG STARS The numerical results were correlating the experimental results Relative permeability data were history matched for flooding processes and this data was used for in situ combustion model Modelling of the reactions in in situ combustion was a

challenge to match the experimental results The final results showed that steam injection was not the best recovery method for this oilfield and in situ combustion was the best available technique with the highest recovery factor     *Recativation of an Idle Lease to Increase Heavy Oil Recovery Through Application of Conventional Steam Drive Technology in a Low Dip Slope and Basin Reservoir in the Midway-Sunset Field, San Joaquin Basin, California* ,1997 This project reactivates ARCO s idle Pru Fee lease in the Midway Sunset field California and conducts a continuous steamflood enhanced oil recovery demonstration aided by an integration of modern reservoir characterization and simulation methods Cyclic steaming is being used to reestablish baseline production within the reservoir characterization phase of the project During the demonstration phase scheduled to begin in January 1997 a continuous steamflood enhanced oil recovery will be initiated to test the incremental value of this method as an alternative to cyclic steaming Other economically marginal Class III reservoirs having similar producibility problems will benefit from insight gained in this project The objectives of the project are 1 to return the shut in portion of the reservoir to optimal commercial production 2 to accurately describe the reservoir and recovery process and 3 to convey the details of this activity to the domestic petroleum industry especially to other producers in California through an aggressive technology transfer program



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